

Instruction and operating Manual

RIFE mini AZ-92

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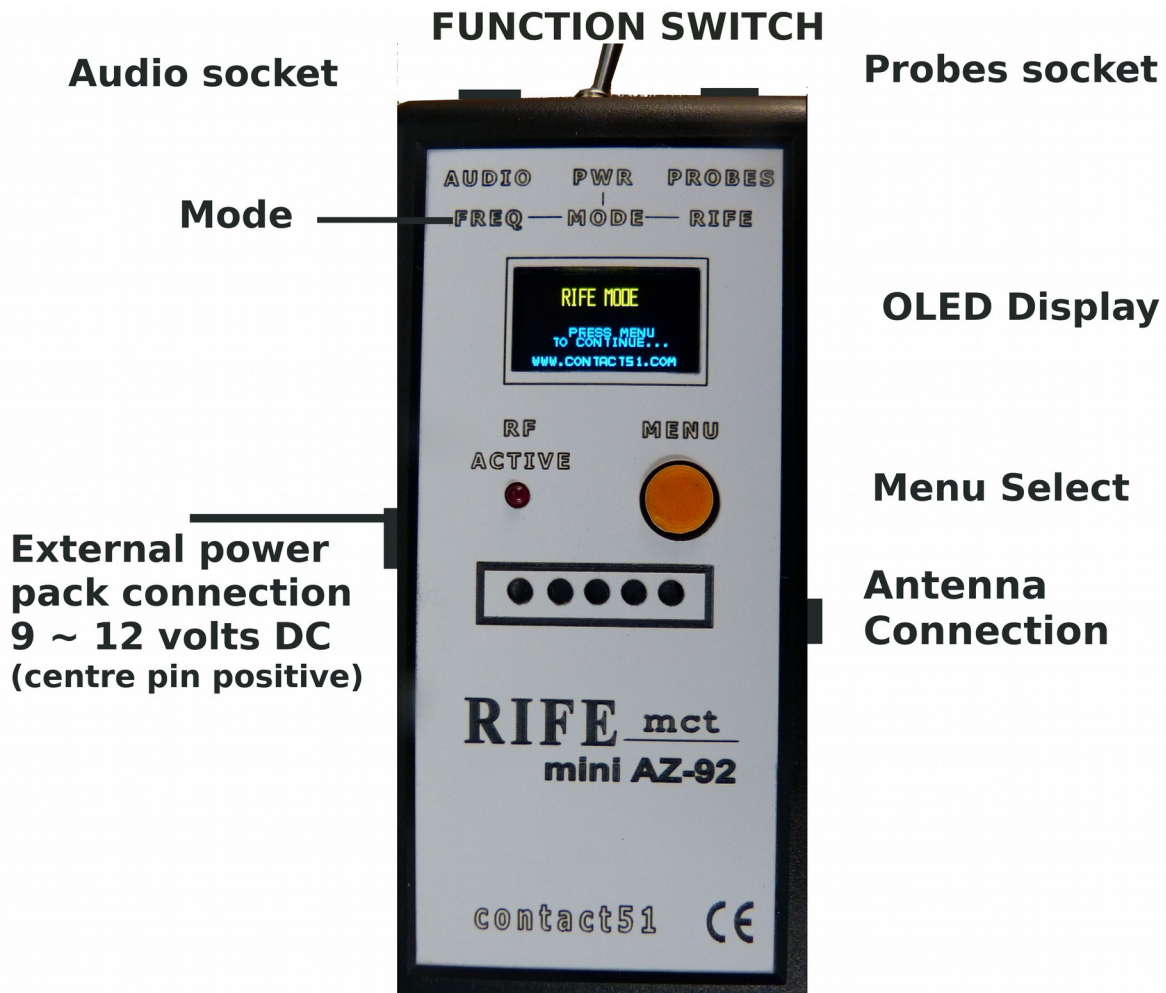
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The AZ-92 is a Dual Select-able Multipurpose Instrument. The Operating Mode is controlled by way of a three-way switch mounted on top of the unit.

- When the switch is in the centre position the unit is turned OFF.
- Switch to the LEFT and the FREQUENCY MODE is selected.
- Switch to the RIGHT and the RIFE MODE is selected.

Upon unpacking the unit, remove the battery cover at the rear, and located in the battery compartment are a Probe Tester and a Battery Clip Remover.

Remove these two items and install a fresh good quality 9 volt battery type PP3.



Front panel of AZ-92 depicted in RIFE MODE

An external wire antenna is supplied that can be plugged into the ANTENNA socket located on the side of the unit, on the right looking at the AZ-92 face. The external antenna will increase the RF (Radio Frequency) output.

An optional External 9 to 12 volt DC power pack can be plugged into the left side (left looking at the unit). Using an external power pack will be more economical, battery usage is ideal for portable operation.

The battery compartment is located on the rear of the AZ-92 and is removed by sliding down.

CAUTION: Do NOT apply any pressure to the OLED screen. It is made of thin glass and is easily damaged.

FREQUENCY MODE

There are 12 pre-set Power Frequencies available plus a Automatic Frequency Stepping function. A built-in low level audio speaker is can emit the selected frequency, and the selected frequency can also be transmitted via a radio frequency signal on 3.2768 mHz.

Place the FUNCTION SWITCH in the Frequency Mode. The OLED display will illuminate and display "FREQUENCY MODE, Press MENU to continue..."

Each press on the MENU button will advance the generator to the next Power Frequency or Function starting with 7.83Hz there after each press will select the following frequency in this order:

7.83 – 111 – 174 – 285 – 396 – 417 – 432 – 528 – 639 – 741 – 852 – 936 – STEPPING – TURN RF ON/OFF - repeat.....

Each selected step is displayed on the OLED screen.

STEPPING

Stepping is selected after pressing the MENU button 13 times after turning the unit **ON** – Stepping becomes active on the next press on the MENU button after frequency 936Hz. The OLED display will display the selected option.

RF OUTPUT

While in frequency mode, the Radio Frequency Carrier Transmission of 3.2768mHz can be turned ON and OFF by stepping through the MENU after 14 presses on the MENU button, the press after STEPPING.

The OLED display will display the following:

"RF CAN NOW BE TURNED ON/OFF"

While this is displayed, press and hold the MENU button for two seconds, the red RF ACTIVE light will turn ON and the RF Carrier of 3.2768mHz will be transmitting. Pressing the MENU button again will turn on the first frequency of 7.83Hz which will be transmitted via radio waves. Any of the 12 frequencies or Stepping.

To turn the RF OFF again, you can turn the FUNCTION SWITCH to OFF,. Or press and release MENU button until the message "RF CAN NOW BE TURNED ON/OFF" is displayed and hold the MENU button in for 2 seconds, the RF ACTIVE light will turn OFF.

BUILT-IN LOW LEVEL SPEAKER

The built in speaker can only be operated while in FREQUENCY MODE.

To active the speaker press and hold the MENU button for 3 seconds. To turn the speaker OFF, press and hold the MENU button for 3 seconds.

Both the AUDIO and PROBES outputs remain active while in all the selected modes above.

RIFE MODE

This mode is selected when the FUNCTION SWITCH is switched to the RIGHT, the OLED display will display "RIFE MODE PRESS MENU TO CONTINUE..."

There are three SCAN modes. The SCAN can be paused at any time resulting in the fundamental frequency being transmitted, plus the harmonics and sub-harmonics of the paused frequency continuously until the pause is interrupted and the scan continues.

A one 2 second press on the MENU will start RF SCAN number 1, the first scanning Radio Frequency transmission of frequencies from 1 Hertz through to 23 kHz fundamental, plus harmonics and sub-harmonics of those frequencies ranging up to 160kHz. Scan number one runs for 30 seconds then repeats continuously until stopped.

While scanning, a single quick press on the MENU button will cause the scan to pause.

Another single quick pause press on the MENU button will cause the scan to continue.

Whilst paused, the letter "P" is displayed on the OLED screen next to "RF SCAN 1" (or 2 or 3).

Press MENU and hold for SCAN 2, again and hold for SCAN 3.

SCAN 1 = 1 minute 42 seconds
SCAN 2 = 8 minutes 30 seconds
SCAN 3 = 17 minutes

While in RIFE mode the audio and Probes output are active. The built-in speaker is not available.

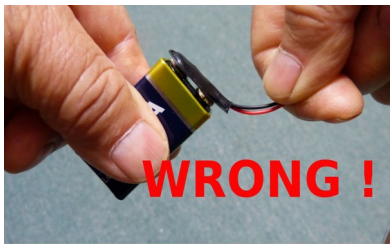
External Power Operation

Located on the left side of the AZ-92 is a DC socket for connection to an external power pack. A 9 or 12 volt regulated DC pack rated at 500mA is required.

Battery Replacement

If the battery get low in capacity, a warning is displayed on the OLED screen by way of **BAT** flashing on the right side of the screen. When this signal appears, the battery should be changed. Ideally the AZ-92 should be used on battery when it is used as a portable. The reason being that battery drain can reach as much as 300mA meaning that you will be changing batteries frequently if used a lot. An alternative is using rechargeable batteries.

When changing the battery it is advisable to use the battery clip removal tool supplied to prevent the wires attached to the clip from being broken by pulling on them to remove the clip.



Use the Battery Clip Removal tool when changing batteries

Probe Tester



The probe tester is useful to check and make sure that you are getting output from the probes.

Connect the probes and turn the AZ-92 on in FREQUENCY MODE. Select an frequency.

There are two wire legs, located on either side of the tester.

Touch the probes firmly against the legs.

If the Tester does not light up, rotate the probe connection to the Tester, that is change the probes touching the legs around.

The Tester will only light up when connected in one direction.

You can watch a video demonstration by going to www.contact51.com and selecting "Support" and then "Using the Output Tester"

Checking the Rife RF transmission

An ideal method to check the transmission of the Rife frequency transmission is by way of tuning in on a shortwave radio receiver. A cheap portable is ideal for this use. A portable can be obtained for less than \$20 that will perform adequately.

When purchasing a portable radio, make sure you check the specification and the shortwave reception can tune from below 3.3MHz. Many shortwave portable radios will only start tuning from around 3.5MHz meaning that you won't be able to hear the Rife transmission.

Here is a typical specification as listed for a portable radio that you should look for:

Frequency Range:

FM :64 - 108 MHz

LW: 153 - 513 kHz

MW: 520 - 1710 kHz

SW: 2300 - 21950 kHz <----- This is the important specification, this radio will tune to below the Rife RF carrier frequency of 3.2768MHz

Check out Banggood, Amazon and eBay for a portable radio of your choice.

External antenna

A connection for a wire antenna is located on the right side of the radio. The connection is a Banana Plug. A 1 Metre wire antenna is supplied with the AZ-92 wire is more than adequate. The AZ-92 can be operated without and antenna connected.

NOTE: Radio transmissions and radio frequencies are controlled by and governed by international regulations. The AZ-92 makes use of what is known as the Class Licence and falls within the band and radiated power level (ERP) as directed by the authorities.

Audio socket

An audio output socket is provided for connection to an external amplifier. This is a 3.5mm standard Jack plug located on the top left of the AZ-92.

Probes Socket

Located on the top right on the AZ-92 is a 3.5mm standard Mono Jack socket for the Probes to be connected.

Maintenance

There are no user serviceable parts inside.

Store in a cold dry place. Avoid exposure to water, rain etc. as the AZ-92 is not water proof.

We suggest you view our website www.contact51.com from time to time as updates and useful information will be added to the sight providing information about Rife and other related subject matter.

Specifications:

Size: 140(H) x 70(w) x 25(D) millimetres

Weight: < 300g including probes

Power: 9v Dry cell battery (PP3) or 9v external power adaptor - not supplied

Probes: 2 x 6mm x 120mm copper

Probes Leads: ~1.0 metre with 3.5mm jack plug

Output: Probes - Modified waveform 4v p-p @ 20mA maximum – Micro Current Technology (MCT)

Output: Built in speaker <20dBA against zero background < 1M

Output: Audio 1v p-p/ 1K ohm via 3.5mm jack socket

Output RF carrier frequency: 3.2768 MHz

Frequencies 7.83 – 111 – 174 – 285 – 396 – 417 – 432 – 528 – 639 – 741 – 852 – 936 Hertz - plus Harmonics and Sub-Harmonics when transmitted in RIFE MODE

Frequency tolerance: +/- <0.2%