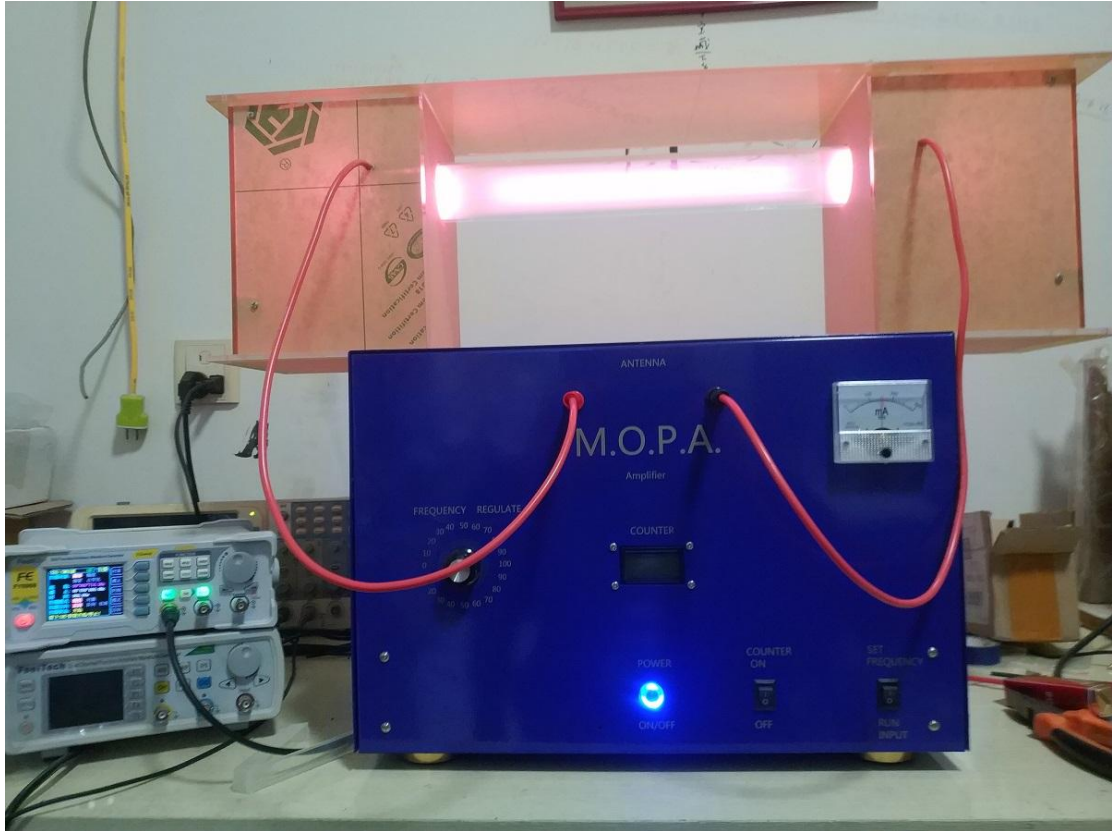


## Rife machine MOPA Instructions

ONE, The main components of the equipment

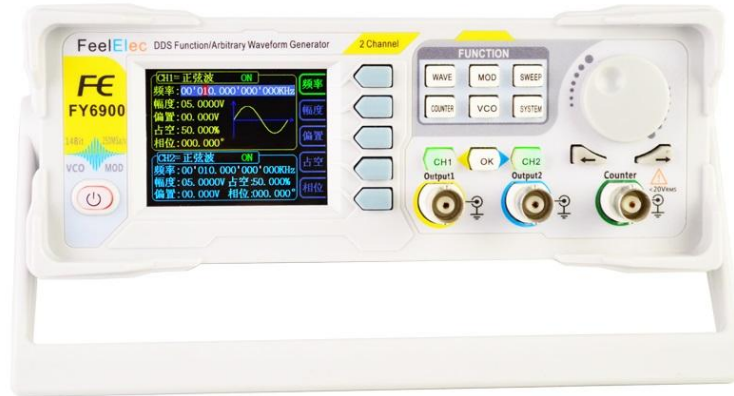
The equipment is mainly composed of three parts: frequency (signal) generator, MOPA host and lamp tube.



Frequency (signal) generator:

Using feeltech's latest desktop frequency (signal) generator FY6900, the frequency accuracy is  $\pm 20$ ppm, and the frequency stability is  $\pm 1$ ppm/3 hours. Download the Chinese manual at

<http://en.feeltech.net/index.php?case=archive&act=show&aid=64>



MOPA host:

Optimized and improved on the basis of the Rife machine 4# machine, the effective output is up to 200W, which is by no means comparable to the foreign GB4000, and the power consumption of the whole machine is about 300W.



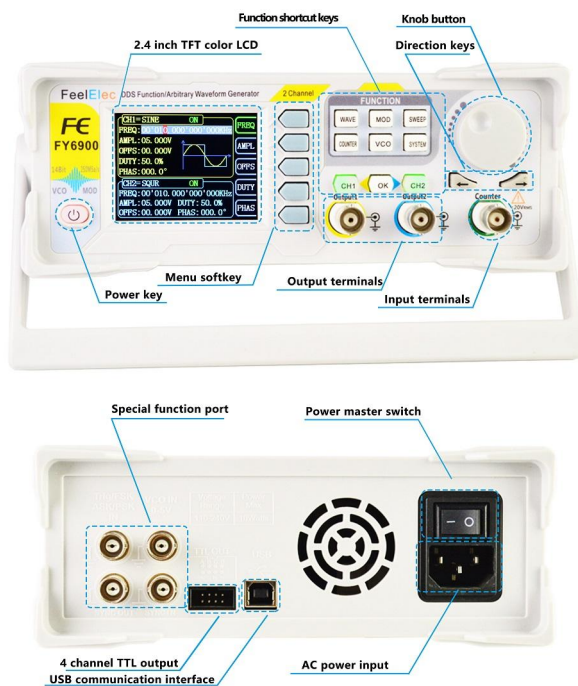
Lamp:

Quartz glass is encapsulated with low-pressure inert gas (Neon or He gas), the electrode spacing is 35 cm, and the two electrode wires are made of insulated cables with a withstand voltage of 10KV 1.5 mm<sup>2</sup>.

## TWO, Panel and interface description

### FY6900 Frequency (signal) generator:

Refer to the manual for details. The CH1 output port is used by default, the frequency range is 1HZ-100khz, CMOS wave, and 10-12V amplitude (AMPL).



### MOPA host:

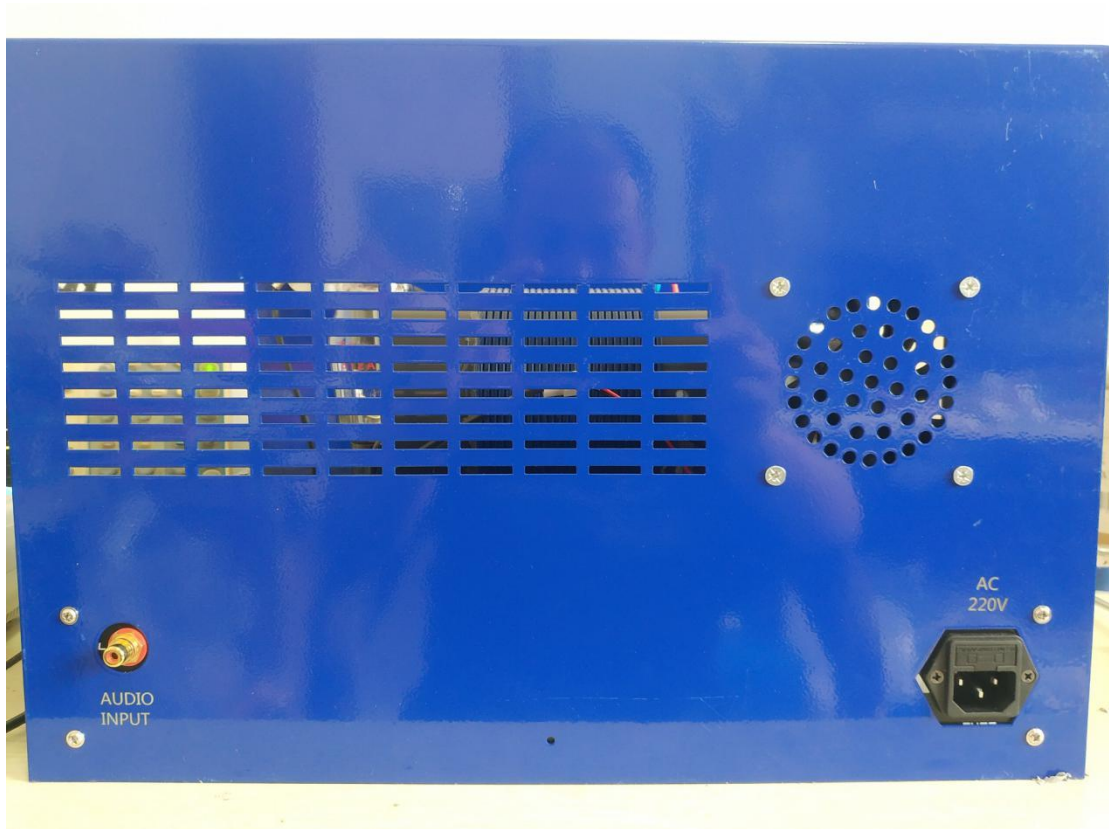
The rear panel mainly has two interfaces: audio input and AC 220V power interface. The signal input interface is connected to the frequency generator CH1, and the AC 220V power interface is connected to the household power supply (the interface includes a fuse, 5A or 7.5A). There are three main switches on the front panel: power switch (power), frequency meter switch (counter), signal input and carrier frequency setting selection switch (set frequency/run input).

There is a carrier frequency setting knob on the upper left side of the front panel. Rotate the knob to set the frequency.

The output ports on the two jacks on the upper part of the front panel

are connected to the lamp tube, and the red port outputs high voltage. The ammeter on the upper right side of the front panel displays the current consumption of the main circuit. The current is slightly higher when the frequency is set (about 200mA), and it is less than 180ma during normal operation.





### Three, operating instructions

Generally, the 812A tube is not installed in the MOPA host when the goods are received. First insert the tube into the tube base according to the thickness of the pin, and insert the white tube cap on the top of the tube.

During operation, first connect the power supply, lamp tube, and signal generator to the MOPA main unit, and the rightmost switch of the main unit selects the frequency input mode (run input). Turn on the frequency generator and set the waveform, frequency and amplitude of CH1, and then press the CH1 button. At this time, the green light of the CH1 button is off. Then press the power switch of the main unit, the indicator light inside the switch is on, and the internal fan works, press the rightmost switch of the main unit to select the set frequency button (set frequency), then the lamp will light up, press the frequency counter switch, the frequency counter Display the carrier frequency at this time, turn the left knob to set the frequency you

need, then turn off the frequency meter, and select the frequency input mode (run input). Press the CH1 button and the lamp will light up. At this time, you can continue to set the frequency or sweep frequency you want to input. The frequency range is 1HZ-100khz. The specific operation method of the frequency generator can be found in its manual. When sweeping, the recommended frequency range is 1khz-60khz, and the sweeping time is set to 900s. It is also possible to divide the frequency band into two or more parts and sweep them separately.

Four, matters needing attention

1. When the MOPA host is running, the red output port outputs high voltage, please do not touch the exposed electrodes with your hands.
2. Due to the high temperature generated during operation of the electronic tube, do not touch the electronic tube with your hands to avoid burns.
3. The lamp tube outputs pulsed light, and its spectrum coverage is wide. Please do not look at the lamp tube for a long time to avoid damage to eyes.
4. The internal fan should work normally. When the fan is turned on and running, you cannot hear the fan running sound. Please turn off the host immediately to avoid burning internal parts.
5. If the lamp does not light up normally when turning on, and the ammeter shows that the current is 300ma or more, please turn it off immediately or select it. Generally due to the low ambient temperature or the lamp has not been used for a long time, it can light up normally the second time in the set frequency mode.