

20K ULTRASONIC GENERATOR (HC-CS2000C)

OPERATE MANUAL

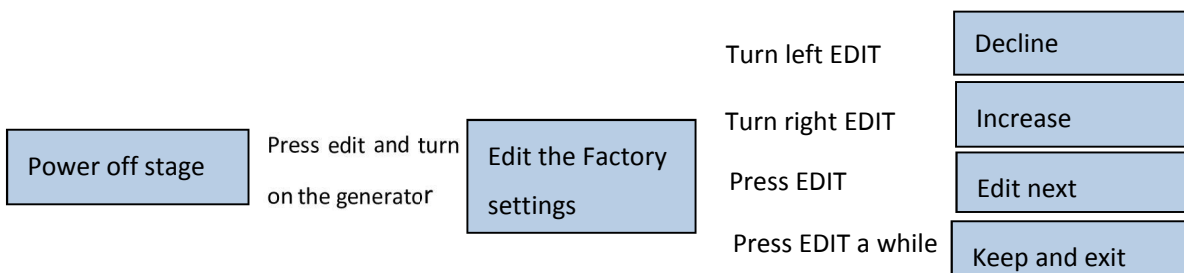
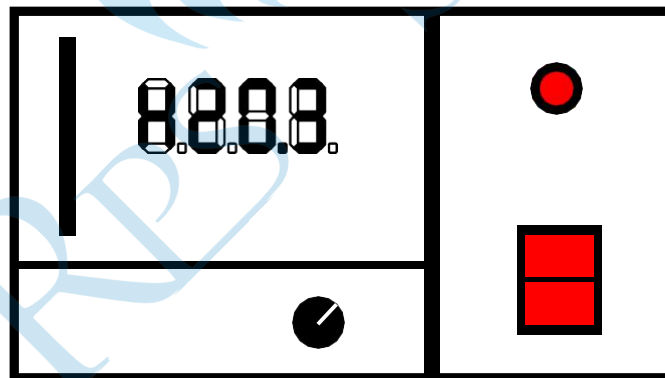
First of all, thank you for purchasing our ultrasonic industrial grade ultrasonic equipment.

Please read this manual carefully before use. Please keep it in a safe place for future reference.

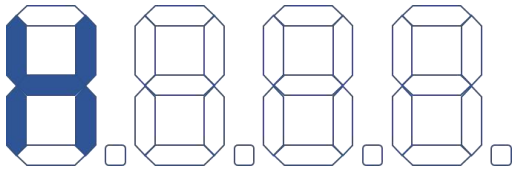
一、 About this manual

1. Unless otherwise stated, all sample operations in this manual assume that the device uses the initial default settings.
2. The contents of this manual are subject to change without prior notice.
3. The displays and illustrations in this User's Guide (such as the initial values of each parameter) are for illustrative purposes only and may differ from the actual items indicated.

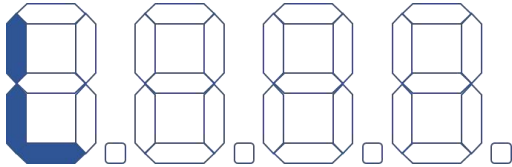
Factory setting



The highest frequency edit



The lowest frequency edit



15KHZ specification setting range is less than 0.8KHZ

20KHZ specification setting range is less than 1.0KHZ

28KHZ specification setting range is less than 1.4KHZ

30KHZ specification setting range is less than 1.4KHZ

35KHZ specification setting range is less than 1.6KHZ

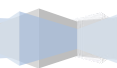
40KHZ specification setting range is less than 2.0KHZ

ATTENTION:

lease operate this equipment by professionals person, otherwise it will cause irreparable damage.

1. High voltage will be generated inside the device. To ensure safe use, pay attention to the following warnings:

- Do not use this product when the housing is open.
- Do not excessively impact or crush the device.
- Use a grounded power supply to avoid possible electrical shock.
- Do not put your hand under the welding horn. The welding horn pressure and ultrasonic vibration will cause damage.
- Do not operate the equipment when the transducer and mold are not connected, to avoid unnecessary damage to the equipment.
- When replacing large molds, be sure to keep yourself safe.
- Before using, be sure to check if the mold is loose. Never operate the equipment with the mold loose.



- When an abnormal condition occurs, the fault is not resolved. Do not turn it on again to avoid the fault expansion.
- Due to the large number of electronic components inside, whenever you dispose of this device or replace internal parts, be sure to follow the laws and regulations in your area.

Equipment work environment requirement.

- Maximum allowable environment temperature: -20°C to 40°C Exceeding the operating temperature may cause work error and fire.
- Maximum allowable air humidity: less than 70%. Excessive air humidity can condense water inside, Short-circuit the internal electronic components of the power supply, causing the device to operate abnormally.
- Maximum electromagnetic interference intensity: less than 120E. Larger than this standard can seriously interfere with the normal operation of the device and damage the device. Ultrasonic power supply itself is a large source of electromagnetic radiation. When there is a clear electromagnetic interference and multiple devices are tightly installed, all communication lines and energy output cables should be shielded and coaxial.

POWER SUPPLY REQUIREMENT:

The power input standard is: single phase AC220V 50HZ/60HZ.

Input power supply voltage fluctuation range: <10%.

Input power grid harmonic content: <20%.

Input supply current: <20A.

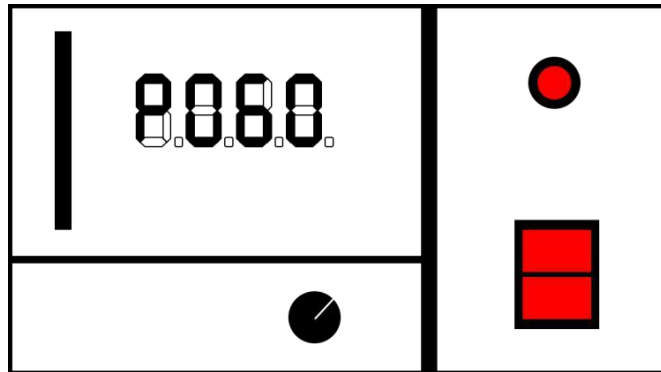
Input power cable diameter: >2.5MM².

Operating setting

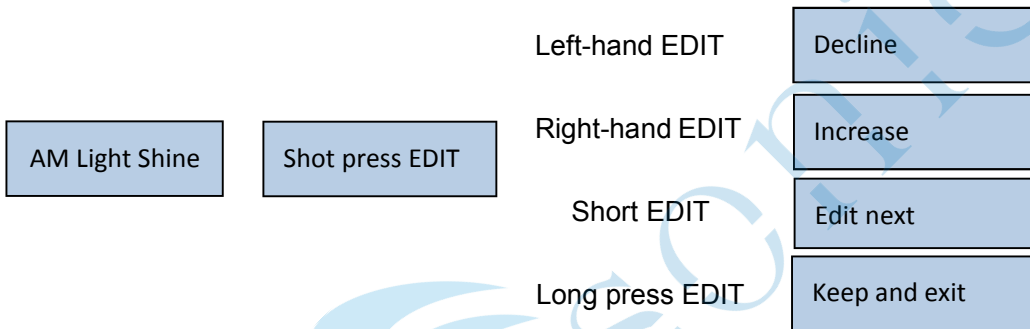
When the generator is power on , you can edit the operate data of welding



First: Amplitude adjust:



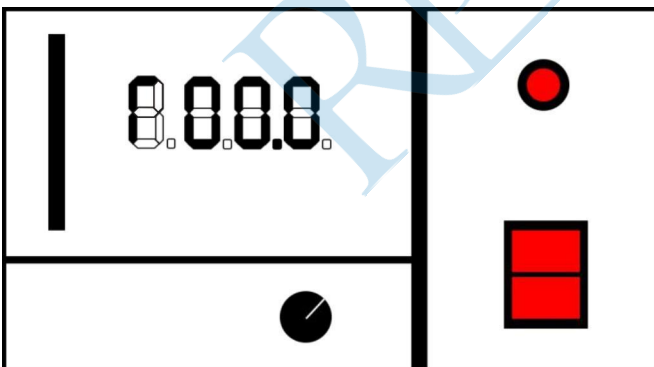
When the upper screen show as above, it indicates that the current state is the amplitude selected



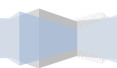
The parameter set by this parameter is the amplitude percentage, and the adjustment range is 40~100. The larger the parameter, the stronger the output amplitude of the device.

Second : welding time setting:

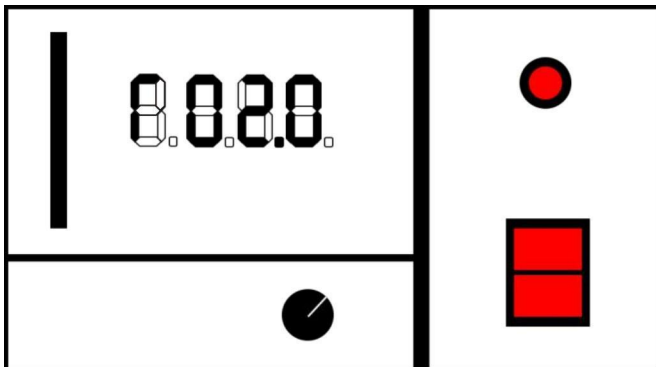
When the screen show as follows: that's means the welding model is continue working.



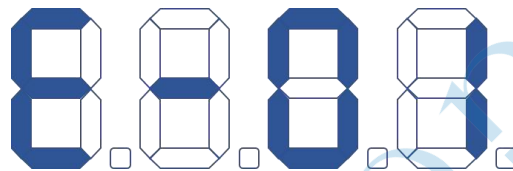
Turn right to change the welding model



When the screen show as follows: that's means the welding time 2 second every circle.



Fault protection display and solution



When the 4 lamps on and alarming, the generator into Protection status.

The screen will show the error code

- E-01: Power over loading.
- E-02: Frequency out range
- E-03: Frequency too low
- E-04: Equipment operation fault
- E-05: Parameters read failed
- E-06: loading error

E-01: Power over loading.

How to solve:Reduce the amplitude or reduce the loading(such as reducing the pressure);

Replace a larger ultrasonic generator.

E-02: Frequency out range

How to solve: Cooling the mold;Check mold connection and transducer



E-03: Frequency too low

How to solve: Check mold connection.

E-04: Equipment operation fault

How to solve: Check mold connection and transducer

E-05: Parameters read failed

How to solve: close the equipment and open after one minute.

