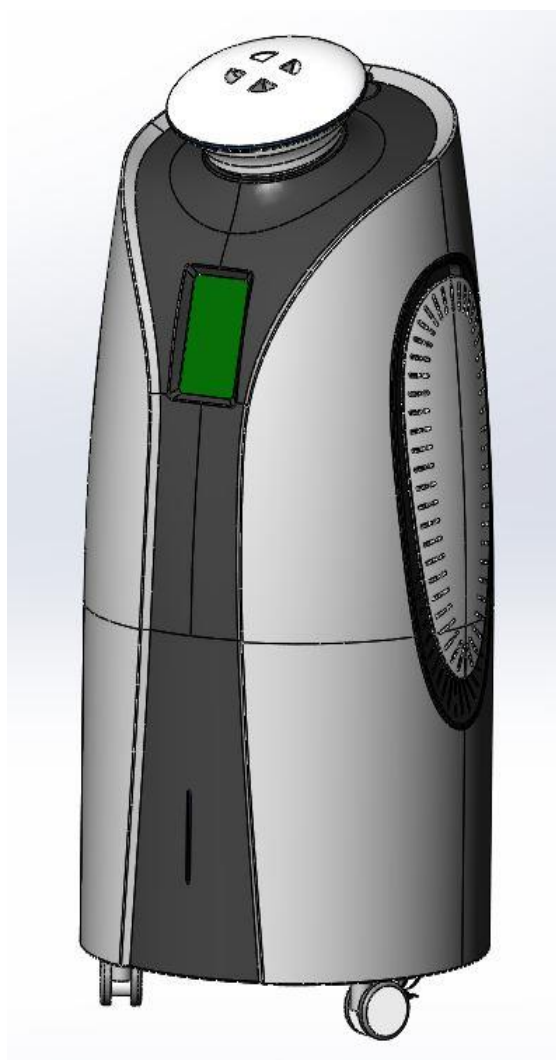




# Nucleic acid aerosol pollution removal instrument

## Manual

V7.0



Bio Teke Corporation(wuxi) Co.Ltd

## **Preface**

Dear users:

Thank you for purchasing a nucleic acid aerosol pollution removal instrument!

Before you use this product, please read the instruction manual carefully and keep it in a safe place. It is our great honour that you can become our user. In order to enable you to master the use of the nucleic acid aerosol pollution removal instrument as soon as possible, we have specially compiled this manual for you. We strive to be comprehensive and simple in the layout of product manuals. From this, you can obtain knowledge about instrument characteristics, operating instructions, and maintenance. We strongly recommend that you read carefully before using this product, which will help you use the instrument better. If you fail to operate the instrument in accordance with the requirements of the manual, our company will not be liable according to relevant regulations.

Thank you for your cooperation!

Bio Teke Corporation(Wuxi)Co., Ltd.

2020/11/5

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## **Non-commitment**

BioTeke Corporation (Wuxi) Co., Ltd. keeps the right to change its product and service with the improvement of technology at any time. And adjustments will be made in this instruction without prior notice with the change of product and services. We try to be accurate in this instruction but will not be liable for any mistakes, errors and losses caused by application of this document information. This user instruction replaces all previous versions.

## **Disclaimer**

BioTeke Corporation (Wuxi) Co., Ltd. will not be liable for any losses caused by not using or inappropriate usage of this product.





## **Electromagnetic compatibility description**

- a) This instrument meets the emission and immunity requirement specified in GB/T 18268.1 and GB/T 18268.26.
- b) This instrument is designed and tested according to Class A Instrument in GB4824. In home environment, this instrument may cause radio disturbance and protection measures are needed.
- c) It is recommended to evaluate the electromagnetic environment before using the equipment.
- d) Using this instrument near strong radiation source (e.g. unshielded radio source) is prohibited.


This may interfere with the normal operation of this instrument.

## 1. Safety Mark Description






**1.1 In this manual, pay attention to the relevant content of the following safety signs**

No.	Mark	Precautions
1		Prompt mark: The prompt message requires the operator to confirm this step before proceeding to the next step. Otherwise the instrument function will be affected.
2		Note the logo: note that the item contains particularly important information, please read it carefully. If you do not follow the prompts, the instrument may not work properly.
3		Warning signs: warning messages require you to take special care in a certain operation step or method. If you do not follow the requirements correctly, it may make the instrument unable to work normally or cause injury to the operator.
4		Prohibition sign: the operator is forbidden to perform this operation, otherwise it will cause damage to the instrument, failure to work normally or injury to the operator.

### 1.2 Safety mark on the instrument


No.	Mark	Precautions
1		Protective Grounding mark, which identifies the terminal connected to the outer protective conductor or the terminal connected to the protective grounding resistance to prevent electric shock in the event of a fault.
2	~220V input	Input voltage: 220V AC.


### 1.3 Outer packaging safety mark


No.	Mark	Precautions
1		Fragile items mark indicates that the transport package contains fragile items and should be handled with care.
2		The upward mark indicates that the transport package should be upright during transportation.
3		The No Rolling sign indicates that the package cannot be rolled during transportation.
4		Afraid of rain sign indicates that the transport package is afraid of rain.
5		No stacking sign indicates that the transport package is afraid of stacking.

## 1.4 Special note on safe use


Users need a complete understanding of the use of the nuclear acid aerosol decontamination instrument before using it. Please read this manual carefully before running the system.


 Note: If the user does not follow the instructions in the instructions for all the consequences, our company will not bear any responsibility.


 Note: This instrument should be checked and accepted according to packing list after opening the box. If the items are found to be damaged or missing, please contact our company or supplier. After acceptance, please fill in the installation information feedback form and return it to our company for filing and warranty. Please keep the packing materials properly after the instrument is out of the box for later use. Our company is not responsible for the instrument damage caused by poor packing on the way to the maintenance department.

 Note: In the following cases, the power plug of the instrument should be removed from the power outlet immediately, and contact the supplier or ask our professional maintenance personnel to handle:

- 1 The instrument is soaked in rain or water;
- 2 Abnormal sound or smell when the instrument is operating;
- 3 instrument fall or shell damage;
- 4 The function of the instrument changed obviously.

 Warning: Operators shall not open the instrument, replace components or debug the instrument without authorization from our company. If you need to open the instrument, it must be completed by the professional with the consent of our company, otherwise there is no warranty.

 Warning: This instrument has a voltage that is harmful to the human body. Please cut off the power of the instrument before opening the shell at any time.

 Prohibition: It is forbidden to clean the instrument while the instrument is working; it is prohibited to use organic solvents such as concentrated alcohol to clean the surface of the instrument.

## 2. Product main information

Product Name	Nucleic acid aerosol pollution removal instrument
Type/Specification	NC1001/NC1002
Main germicidal factors, their strength, germicidal principle, microbial killing category; nucleic acid aerosol scavenging reagent, scavenging principle, nucleic acid scavenging category	<p>Anti-virus factor:6%-20% food grade or analysis of pure hydrogen peroxide solution;</p> <p>Sterilization principle: this equipment adopts specially designed liquid supply and dispersion system, misting low concentration H<sub>2</sub>O<sub>2</sub> into nano-micron droplets (0.5-5μm), dispersing micro-liquid beads evenly distributed to every corner through Brownian motion, realizing air disinfection and sterilization;</p> <p>Kill microbial category: natural bacteria in the air, Staphylococcus albicans, etc.</p> <p>Nucleic acid scavenger reagent: nucleic acid scavenger;</p> <p>Clearance principle: the equipment uses a specially designed liquid supply and dispersion system to atomize the nucleic acid scavenger into nano-micron droplets (0.5-5μm), and disperse the micro-liquid beads evenly distributed to every corner through Brownian motion. The scavenger destroys the nucleic acid structure and realizes the nucleic acid removal in the air;</p> <p>Nucleic acid clearance categories: DNA and RNA</p>
Scope Of Use	Used for indoor air disinfection and removal of nucleic acid aerosols in scientific research laboratories at all levels and in all places where microbial limits are required.
Warranty Period	1 year
Precautions	<p>1 The machine is placed as horizontally as possible to ensure the best atomization efficiency;</p> <p>2 The product does not co-exist;</p> <p>3 During machine movement or transportation, make sure to drain the liquid first, otherwise there is a risk of spatter.</p>
Implementation Criteria	Q320206B2020-2020
Production Enterprise (name, address, contact number, postal code)	<p>BioTeke Corporation (Wuxi) Co., Ltd</p> <p>2nd Floor , D16, No.1719,Huishan Avenue,Wuxi, Jiangsu,China</p> <p>400-678-8982</p> <p>214000</p>
Health Permit for Production Enterprises	Su Wei Xiao card word (2020)3202-0043
Service Life (or life of major components)	5 years
Method Of Use	The equipment is placed in a closed space, adding hydrogen peroxide disinfectant or nucleic acid scavenger, setting up the procedure, spraying, waiting for a certain time after the end, completing disinfection or nucleic acid aerosol removal. See 6 for details. Operation method.
Applicable Space (m <sup>3</sup> )	NC1001≤200; NC1002≤400



### 3. Overview

#### 3.1 Schematic of Nucleic Acid Aerosol Pollution Removal Instrument

##### 3.1.1 Outline diagram

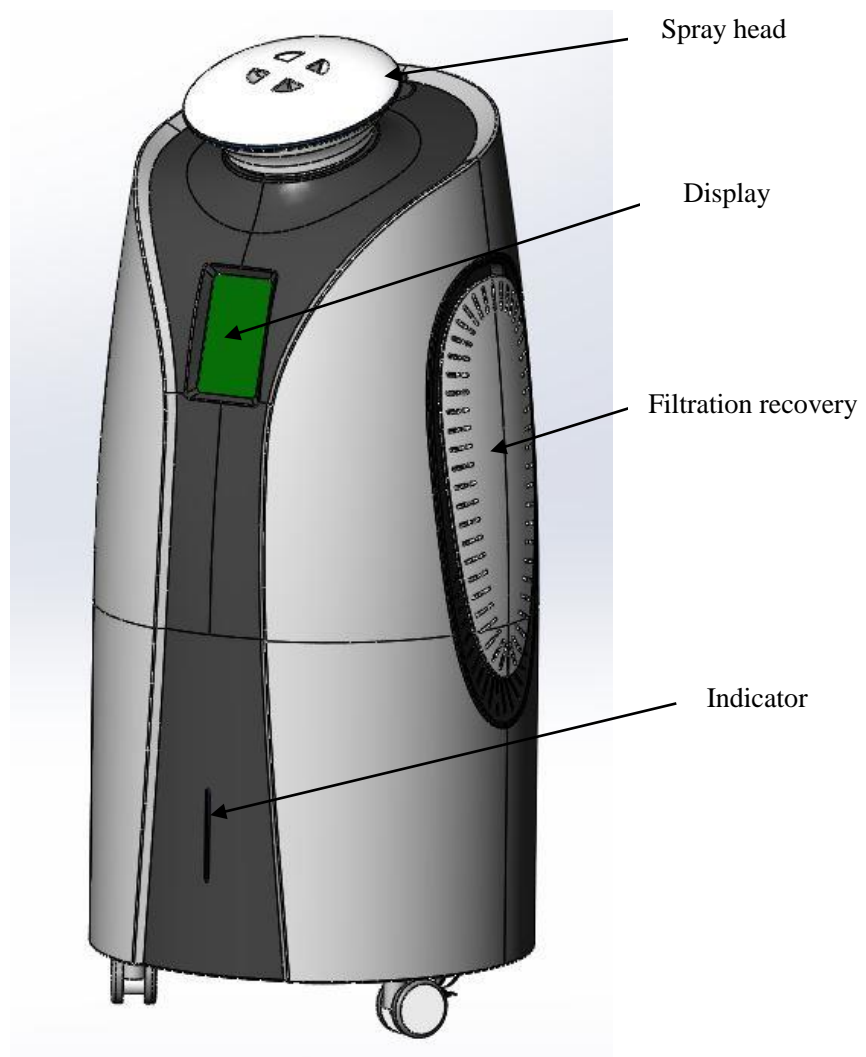


Fig .1 Outline diagram

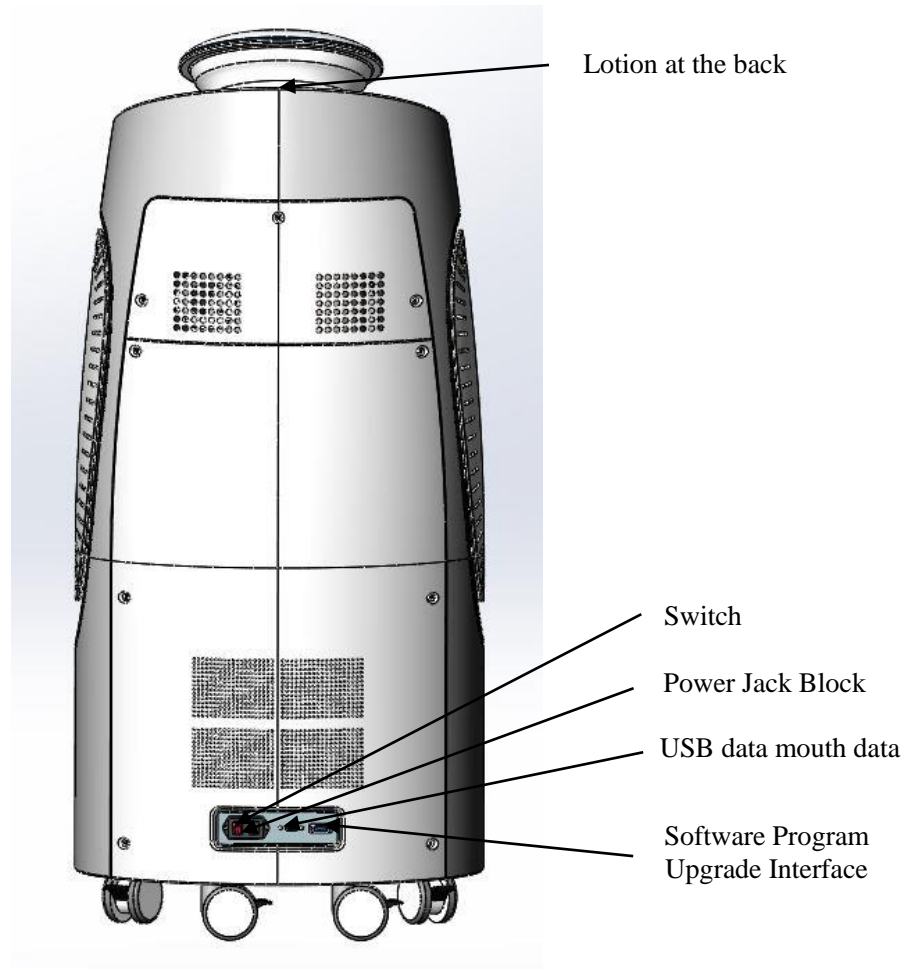


Fig.2 Outline diagram

### 3.1.2 Touch Operating Panel



Fig.3 Touch Operating Panel

## **3.2 Working Principle of Nucleic Acid Aerosol Pollution Removal Instrument**

Nucleic acid aerosol pollution removal instrument is a special equipment for air disinfection and nucleic acid aerosol removal in laboratories at all levels of scientific research and in all places where microbial limits are required. The device uses a specially designed liquid supply and dispersion system to atomize low concentration  $H_2O_2$  or nucleic acid scavengers into nano-micron droplets (0.5-5 $\mu m$ ). The dispersed micro-liquid beads are evenly distributed to all corners through Brownian motion to achieve air Disinfection, sterilization or nucleic acid aerosol removal; high concentration  $H_2O_2$  can be avoided with small particle size, good diffusion, large specific surface area, and disinfection or nucleic acid aerosol removal can greatly increase strong.

## **3.3 Characteristics of products for Nucleic acid aerosol pollution removal instrument**

### **★Booking Start-up Function**

Input disinfection (nuclear acid aerosol removal) date and time, the equipment automatically turned on, according to the preset parameters automatic disinfection;

### **★Remote control**

With remote control function, outdoor can control the state of the equipment;

### **★Alarm function**

After disinfection (nuclear acid aerosol removal), the equipment has its own warning and alarm;

### **★Data Local Storage**

Historical data can be derived from the USB port and printed disinfection (nucleic acid aerosol removal) history records include: start end time, disinfection (nucleic acid aerosol removal) volume, disinfection (nucleic acid aerosol removal) area.

## **4. Performance Indicators**

### **4.1 Use of environmental requirements**

Power condition: AC 220V  $\pm 10\%$ ;

Frequency: 50~60 Hz;

Input power: 600W ( NC1001 )      1500W ( NC1002 );

Operating ambient temperature range: 15 °C~ 40 °C;

Relative humidity in working environment: 20-70%;

Atomization rate: 15~25ml/min(NC1001)      30~40mL/min(NC1002);

Maximum atomization space: 200m (NC1001)      400m (NC1002 )

### **4.2 Size and Weight**

Size :(length\*width\*height mm)560\*560\*1200;

Net weight: about 60 kg.

## **5. Installation**

The following basic safety measures must be strictly followed during the operation, maintenance and repair this instrument. The safety protection provided by this instrument may be affected if these measures or warnings in other parts of this user instruction are not followed. Meanwhile, this may also destroy safety standards of design and manufacture and affects expected application range of the instrument.

BioTeke Corporation (Wuxi) Co., Ltd. will not be liable for any consequences caused by users not following the below requirements.

### **5.1 Pre-use Notes**

#### **5.1.1 Acceptance**

This instrument is transported in wooden box and cotton packing during long distance transportation. Please check the integrity of the outer packaging of the instrument before opening the box. If there are defects, collisions or flooding marks, please contact the transportation department or our company.

This instrument should be checked and accepted according to packing list after opening the box. If the item is found to be damaged or missing, please contact the supplier. After acceptance, please fill in the acceptance form and feedback back to our company for filing and warranty. Please keep the packing materials and related accessories properly after the instrument is out of the box for later use. We are not liable for any instrument damages caused by improper packaging during transportation to maintenance department.

#### **5.1.2 Check integrity**

Check all components in reverse order according to the attached packing list. If there are missing components, please contact the local Bio Teke dealer or Bio Teke Corporation(Wuxi)Co.,Ltd.


### 5.1.3 How to Disassemble


Move unpacked equipment to its place of work and open the wooden box as usual. Open the package to obtain the following random accompanying documentation instructions.

Packing list

- b) Acceptance list
- c) Certificate of conformity
- d) Warranty card

Product Description

 **Note: unless specified in the instructions, please do not contact or loosen screws or other parts, otherwise it will cause instrument misalignment and instrument warranty failure.**

 **Note: for future re-shipment, please keep the original packing wooden frame. The wooden frame is designed to ensure transport safety and reduce damage in transit. Choosing other packaging materials will invalidate the warranty. At the same time, please keep the equipment related documents provided by our company for future use.**

### 5.1.4 Use of environmental requirements

#### 1) Power requirements

- a) Instrument grounding

In order to avoid electric shock, the input power line of the instrument must be grounded reliably. This instrument uses three-core plug, can only be used with this type of power outlet, this is a safety device.

- b) Power supply

Before connecting the AC power supply, make sure that the voltage of the power supply is consistent with the voltage required by the instrument ( $\pm 10\%$  deviation allowed). And ensure that the rated load of the power outlet is not less than the

requirements of the instrument. Please do not use the instrument when the voltage is unstable, too high and too low.

c) Power cord

This instrument should usually use randomly attached power cord. If the power cord is damaged, it must be replaced without repair. Replace with power cord of the same type and specification. Do not put any items on the power cord when this instrument is in use. Do not place the power cord in the place where the personnel move. Please make sure that the power cord does not pass through high temperature objects such as heaters.

Please check carefully whether the power connection is firm before use. When the power cord is plugged, be sure to hold the plug. When the plug is inserted, make sure that the plug is completely inserted into the socket, and do not pull the power cord hard when pulling out the plug.

**2) Environmental requirements of instruments**

This instrument should be placed in a place where the temperature is low, the dust is less and away from the water source (such as near the pool, water pipe, etc.), and the room should be well ventilated and free from corrosive gas or strong magnetic field interference. Do not place the instrument in wet or dusty places, not in the presence or possible presence of flammable and explosive gases.

The openings on this instrument are designed for ventilation and heat dissipation. In order to avoid overheating, do not block or cover these ventilation and heat dissipation holes.

During the operation of the instrument, the distance between the ventilation and heat dissipation holes in front and back of the instrument and the nearest object should not be less than 25 cm. In addition, do not use the instrument on the soft surface, otherwise it will affect the ventilation and heat dissipation at the bottom of the instrument.

Too high ambient temperature will affect the performance of the instrument or cause failure. Do not use this instrument in direct sunlight and keep away from heating, stoves and other heat sources.

When this instrument is not used for a long time, the power plug should be unplugged and covered with soft cloth or plastic bag to prevent dust from entering.


## **5.2 Steps before instrument operation**

### **5.2.1 How to ensure normal start-up**

a) Make sure the main switch on the right side of the back of the instrument is off. Pay attention to ensure grounding according to power supply requirements before operation.

b) Connect the power cord of the instrument to the main power socket on the right side of the back of the instrument. If you need to use other types of power cord to obtain local authority certification (such as China's 3 C certification). Before inserting the power cord, make sure that the rated voltage indicated at the bottom of the backplane matches the local voltage.

c) Connect the instrument to a power outlet with a protective grounding conductor.

 **Note: the total power supply of the instrument must be turned off when connecting or disconnecting the power cord.**

## **5.3 Running tests**

a) Turn on the total power supply of the device, the instrument performs initialization detection and adjustment.

b) After initialization detection and adjustment, the screen automatically enters the main interface of the software.



## 6. Operation Method










### 6.1 Main menu

After the instrument is powered on, self-check and enter the main menu operation interface. As shown below:




Fig.5 Main menu

This interface mainly includes instrument function and document shortcut:

The upper right corner function key is Chinese and English switch key: “” Representing Chinese identity, “” A line of function keys in the middle are in turn: “”, “”, “”, “”, “” Represents "running program ", "cleaning operations", "program editing", "use records", "parameter settings" and other functions; Below function key “ ROOM1  Enter” Quick access to program keys.

## 6.2 Runners

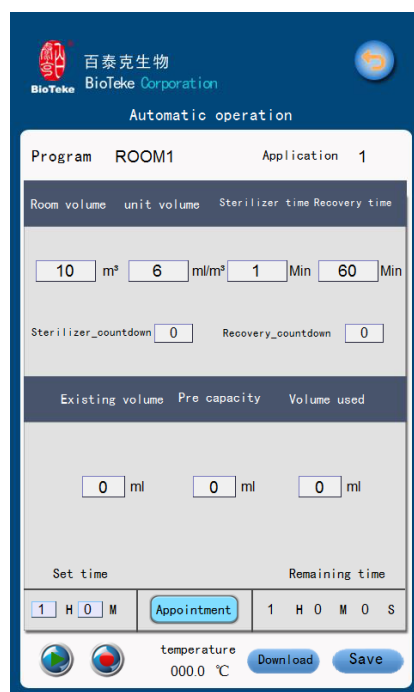
### 6.2.1 Running files

Touch the main interface“”Program Run Key, select the program with the left and right arrows and click "enter"



Select the program with the left and right arrows and click "Enter"

The program interface is shown below:



The screenshot shows the 'Automatic operation' interface for 'ROOM1'. It includes input fields for 'Room volume' (10 m³), 'unit volume' (6 ml/m³), 'Sterilizer time' (1 Min), and 'Recovery time' (60 Min). Below these are 'Sterilizer\_countdown' and 'Recovery\_countdown' fields, both set to 0. A section for volume tracking shows 'Existing volume', 'Pre capacity', and 'Volume used', all currently at 0 ml. At the bottom, there is a 'Set time' section with '1 H 0 M' and a 'Remaining time' section with '1 H 0 M 0 S'. A 'temperature' field shows '000.0 °C'. Navigation buttons include 'Appointment', 'Download', and 'Save'.

Fig.6 Running Program Interface

- 1) Enter the room volume of the sterilization area in [room volume ],[ unit volume] is the volume of the sterilization solution required per cubic meter (generally recommended by default as set by 10 ml/m<sup>3</sup>),[ disinfection time] is the time when atomized hydrogen peroxide is present in the room and [recovery time] is the time to automatically remove residual hydrogen peroxide. [Existing Volume ][ Pre-used Volume ][ Used Volume ][ Used Volume ][ Used Volume ][ Used Volume ][ Used Volume ][ Used Volume] run before the existing volume is more than the pre-used volume (e.g., the required volume is calculated according to the room volume x unit volume theory L,

Additional machine needs to be considered More than 1.7 L, the actual addition can be added by 2.7 L).

2) Click download to load the set program and click Save to save the set program.

3) Click  Or the remote control starts running the program.

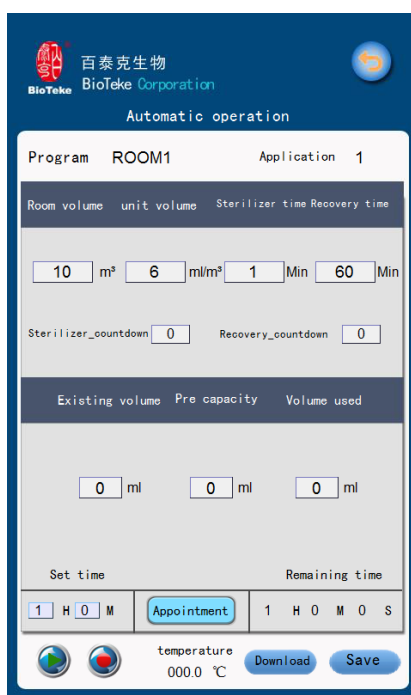




Fig.7 Running interface

The current start button turns red when the program starts running,  Will become , Indicates that the program is running.

The nucleic acid aerosol decontamination instrument has two functions: disinfection and recovery of residual hydrogen peroxide.

1) Disinfection function

Set only [room volume ],[ unit volume] and [disinfection time], set [recovery time] to 0, only disinfection, no hydrogen peroxide recovery.

2) Recovery of residual hydrogen peroxide function







Only set [recovery time], set [room volume ],[ unit volume] and [disinfection time] to 0, then only hydrogen peroxide recovery, no atomization disinfection process.

3) Combination function





This function needs to set four values: room volume, unit volume, disinfection time

and recovery time. At this time, atomization disinfection is carried out first, and then residual hydrogen peroxide recovery is carried out after the end.

### 6.2.2 Suspend Run File

Touch the button while the file is running  Or remote control, Suspension of proceedings, At the same time  Change  Press button; To continue running this program, touch the button  Or the remote, the program continues to run, while pressing the button  Turn to button .


### 6.2.3 Stop running file and reset

In the running state, first touch the key  Or remote control, program pause, and press  Turn to button . Then touch the button , Procedure stopped, disinfection terminated.

### 6.2.4 End of file run

At the end of the program, the buzzer will alarm and prompt the end of disinfection.

## 6.3 Cleaning operations

In the main menu, touch  Key - Cleaning Operations, Enter the cleaning operation control interface as shown below:

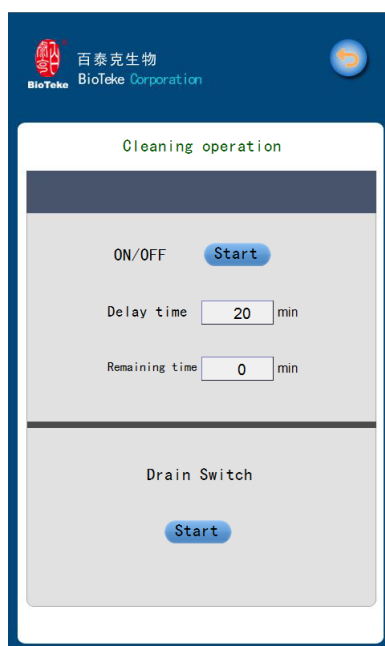




Fig.8 Cleaning operation interface

After setting the delay time of cleaning operation, touch the "open" button and start cleaning operation; start countdown at the same time. Touch the close button and close the cleaning operation.

When the delay time is set, the cleaning operation stops, the screen prompts the cleaning to end, and the buzzer alarm prompts and touches the button , return to main interface.

Before clicking on the drain switch, the valve at the drain port must be opened. After the drain is finished, the screen prompts the drain end and the buzzer alarm prompts.

## 6.4 Programmed

In the main menu, touch the program edit key“”, That is to enter the program editing interface.

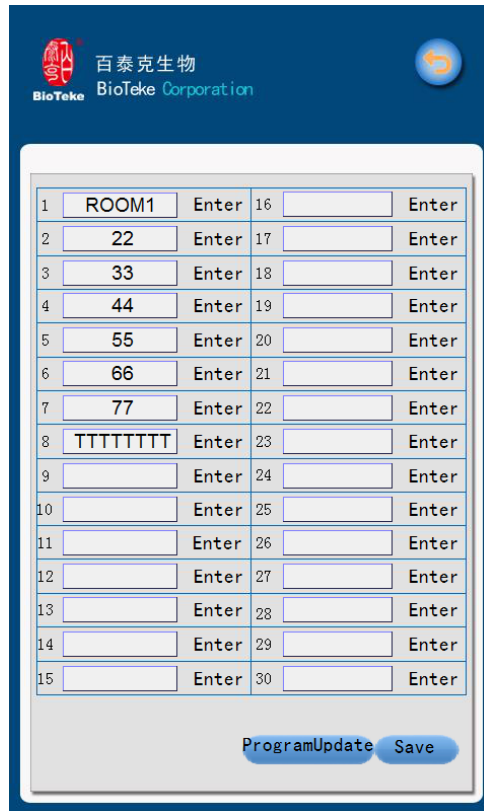


Fig.9 Program editing interface

### 6.4.1 New procedures

Touch the blank position, pop up the keyboard, enter a new program name (letters or numbers, up to eight characters)

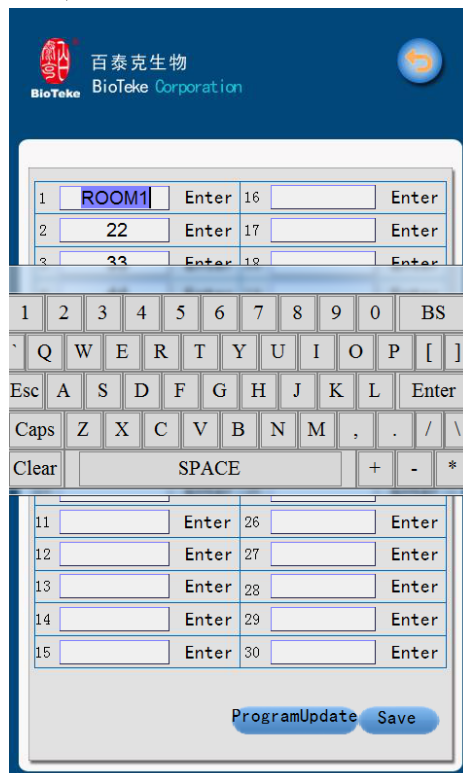
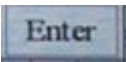
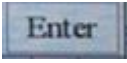
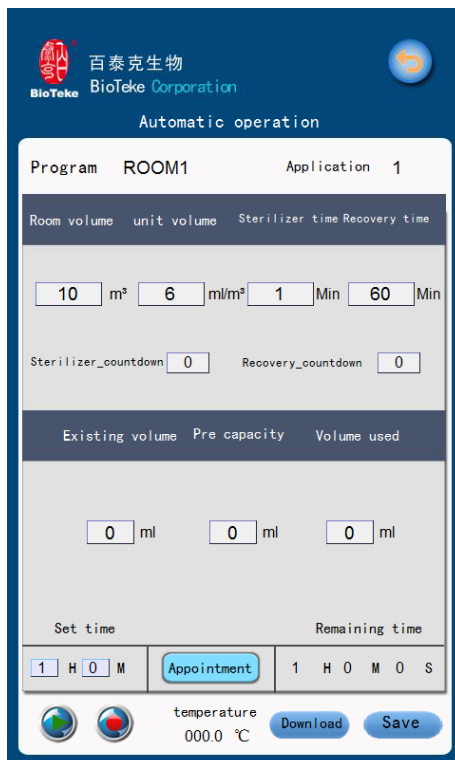


Fig.10 Program editing interface

When the input is complete, click  OK, then click on the program update and save. Click , Enter the new interface.



BioTeke Corporation

Automatic operation

Program ROOM1 Application 1

Room volume	unit	volume	Sterilizer time	Recovery time
10	m³	6	1 Min	60 Min

Sterilizer\_countdown 0 Recovery\_countdown 0

Existing volume	Pre capacity	Volume used
0 ml	0 ml	0 ml

Set time 1 H 0 M Appointment Remaining time 1 H 0 M 0 S

temperature 000.0 °C Download Save

Fig.11 Program editing interface

## 6.4.2 Modification procedures


### 6.4.2.1 Changes in the program editing interface

Open the program editing interface, click into the program to be modified, modify, after the modification click download, save, to save the repaired program.

### 6.4.2.2 Changes at program run time

When the program runs, click on the parameters that need to be modified, modify, click download after modification, the program will continue to run according to the modified program.

## 6.5 Use of records

In the main menu, touch the program edit key“”,Enter the use of the log interface.

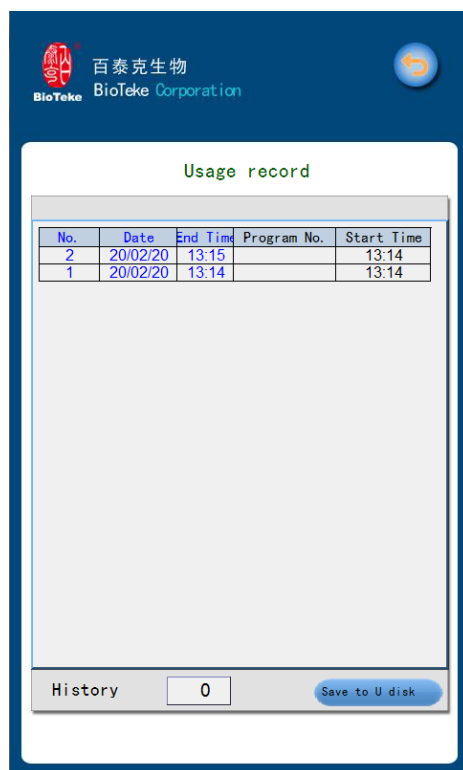



Fig.12 Use the log interface

The use record of sterilization is recorded in the form, including start time, end time and program number, etc. Click the Save to U disk button and save the picture to the U disk in picture format.

## 6.6 Parameter Settings

In the main menu, touch the program edit key“”,Enter the parameter setting interface.



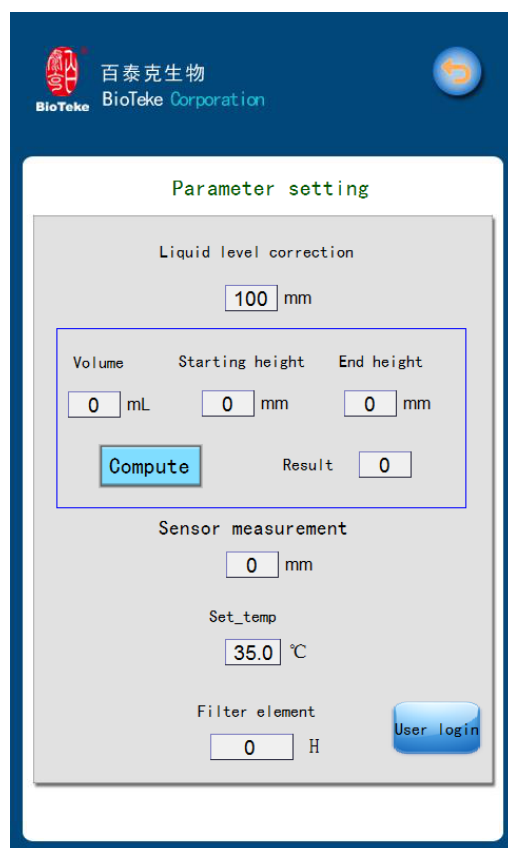


Fig.13 Parameter Setting Interface

Height correction is used to correct the height of the liquid level in the container. Set the temperature to the cooling temperature of the sterilizing liquid. Changing these two data requires login permissions, you can click on the user login password to change. (Password 1234)

Filter material is the use time of filter material.

## 6.7 Closed

Press the main power switch to turn off the instrument. The main power switch is below the right side of the back panel of the instrument (see figure 2).



**WARNING: All sterilizers should be treated as dangerous hazards.**

## **7. Maintenance**

### **7.1 Regular maintenance and maintenance**


a) Daily maintenance, always keep the instrument free of dust and liquid residue; when the equipment is free, use transparent plastic bags to protect the nozzle so as not to enter the machine nozzle;

b) It is recommended not to use strong detergent, which will cause damage to the surface coating of the instrument.

c) Clean the instrument regularly, dip 70% ~ 75% alcohol wet cloth or mild detergent.

d) If there is salt solution, organic solvent, acid and alkali solution on the instrument, wipe it off immediately to protect the instrument from damage;

e) The second generation machine uses once to recommend the discharge liquid, uses the pure water to carry on the machine cleaning; does not recommend to have the residual liquid to stay in the machine;

 **The surface of the instrument coating can be cleaned with conventional laboratory cleaners, as long as the appropriate proportion is diluted according to the instructions for the use of reagents. Never expose coating surfaces to strong acids and high-purity ethanol for long periods of time !**

**The instrument touch screen is cleaned with a mild laboratory purifier.**

**Plastic test doors and surfaces are cleaned with ethanol or mild laboratory cleaners.**

**If the surface of the instrument is contaminated with toxic biological reagents, it can only be cleaned with a mild bactericidal solution.**

**Do not sterilize any part of the instrument with high pressure.**

### **7.1 Repairable packaging requirements**

Be careful when you are ready to return the instrument to repair:

- a) Inform whether biological dangerous goods have been used.
- b) Sterilize the instrument in advance and attach the disinfection certificate with name and date.
- c) The interior of the instrument is fixed with foam lining.
- d) Packing the instrument according to the instructions.
- e) Use the original packaging to ensure no damage during transportation, any damage will result in additional labor and material costs.
- f) After contact with dealer or Bio Teke biological maintenance department, indicate instrument failure.
- g) The instrument transportation condition is :-40~70°C(packing), the storage condition is :-25~50°C(packing), please transport and store under the specified conditions.

## **7.2 Service contracts**

We suggest that you sign a service contract with Wuxi Bio teke corporation. The instrument is maintained regularly by Baitaike engineer every year. This ensures proper maintenance, and you don't have to worry about trouble. Please contact Wuxi Bio teke corporation for details.

## **7.3 Equipment disposal**

- a) The instrument must be disinfected and purified before treatment.
- b) Instrument discards must be based on the laws and regulations of local authorities, especially the recovery of electronic instruments and wastes.
- c) Outer packing wooden cases and other packaging materials are renewable.
- d) For more information about the instrument, please consult a local agent or Bio Teke Biological.

A reference value for setting sterilization parameters (sterilization rate  $\geq 99.9\%$ ):

<b>Room volume (m<sup>3</sup>)</b>	<b>Unit volume (mL/m<sup>3</sup>)</b>	<b>Disinfection time (min)</b>	<b>Recovery time (min)</b>
50	10	60	0
150	10	60	0

Establishment of reference values for nucleic acid clearance parameters (clearance  $\geq 99$  per cent):

<b>Room volume (m<sup>3</sup>)</b>	<b>Unit volume (mL/m<sup>3</sup>)</b>	<b>Disinfection time (min)</b>	<b>Recovery time (min)</b>
50	10	45	90
150	10	45	120

## **8. Common failures and troubleshooting**

### **8.1 Screen no display**

- A. Check that the machine switch is on.
- B. Check that the power cord is plugged.
- C. Test the voltage of the power outlet.

### **8.2 No spray**

- A. Check for water shortage;
- B. Internal atomizer may be used for too long, need to be replaced;
- C. Considering that there may be some precipitation in the solution and container for a long time, add 20-50 ml edible vinegar to the solution, stirring can solve the dirt problem.

### **8.3 After-sales service information**

Bio teke corporation(wuxi)Co.,Ltd;

Address: 4th Floor, D5&2nd Floor, D3& 1st and 2nd Floor, D16, No.1719, Huishan Avenue, Wuxi, Jiangsu, CN 214174.;

Post-sales telephone: 400-678-8982.

Web site: [www.bioteke.cn](http://www.bioteke.cn)

Bio Teke corporation(Beijing)Co.,Ltd;

Address : 2nd Floor ,103 Beijing Road, Haidian District, Beijing;

Post-sales telephone:400-678-8982.