

# BioQuick Incubator

## Operation Manual



Model No.: YRM-IN04



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## **Section I. Notice for use**

Thanks for choosing the BioQuick Incubator.

This manual describes features and related information, and also provides graphical operation steps which will be convenient for your use. Please read this manual carefully before using.

### **Operating principle:**

With a small size, the BioQuick incubator is easy to operate, portable, providing incubation channel for matching test card. With aluminum substrate heating plate as the main heating component, the test card can be sufficiently heated.

### **Scope of application:**

The BioQuick Incubator needs to be used together with the matching test card, which can be used by laboratory professionals as well as general worker. It can be applied to laboratories and food safety on-site test.

### **Technical index:**

a) Accuracy of temperature control:  $\pm 1^{\circ}\text{C}$

b) Time of temperature stabilization:

The time required for the incubation channel to reach the target temperature from the ambient temperature is less than 30 minutes.

## Section II. Components and main structure

After opening the package, please check to ensure that the content listed below are included.

### 1. Standard contents

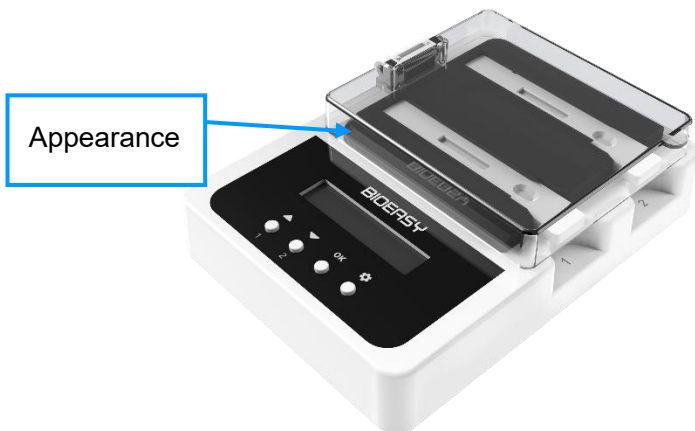
| No. | Items                        | Quantity |
|-----|------------------------------|----------|
| 1   | BioQuick Incubator           | 1        |
| 2   | EU Power adapter             | 1        |
| 3   | Car charger for 12/24V truck | 1        |
| 4   | Operation manual             | 1        |
| 5   | Packing List                 | 1        |

Please use the incubator with the corresponding test card.

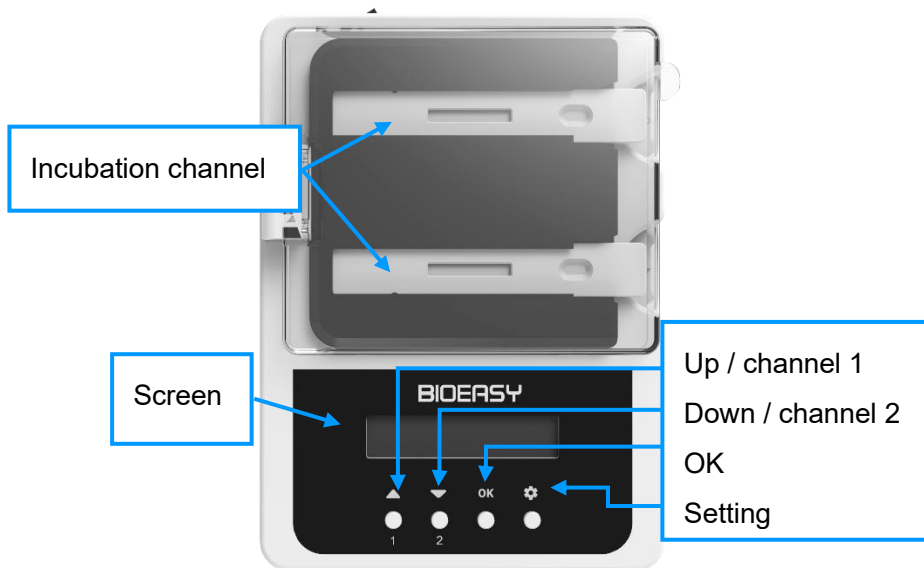
Note: If any component is missing or damaged, please contact your local sales representative in time. For detailed contact information, please refer to Section IX of this manual.

### 1.1. Incubator

#### 1.1.1. Interface on the front

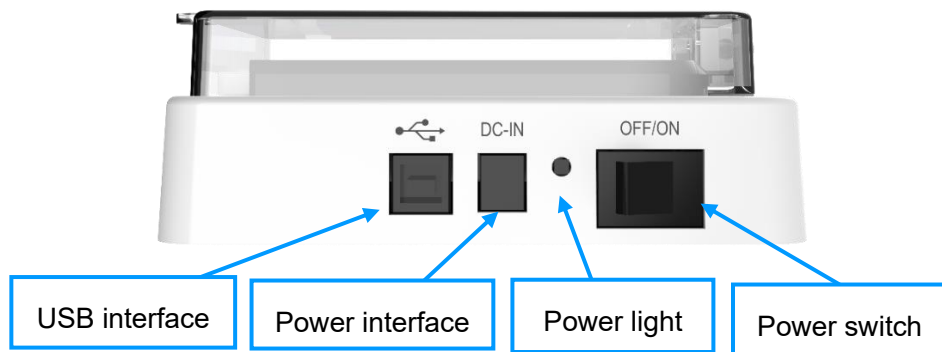


### 1.1.2. Interface on the top



### 1.1.3. Interface on the back

Power interface, power switch and USB interface are located behind the instrument and are used for power supply, startup/shutdown and upgrade of the instrument.









#### 1.1.4. EU Power Adapter







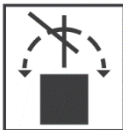
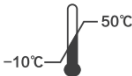


#### 1.1.5. Car charger for 12/24V truck



## 1.2. Labeling

| Symbols   | Instructions             |
|---|--------------------------|
|    | Instruction for Use      |
|    | Note, Refer to Documents |
|    | Model Number             |
|  | Serial Number            |
|  | Manufacturing Date       |
|  | Manufacturer             |

|   |   |
|---|---|
|    | WEEE (Waste Electrical and Electronic Equipment)  |
|    | The Way Up  |
|    | Fragile   |
|    | Keep Away from Sunlight                           |
|    | Keep Dry  |
|    | The Limitation of Stacking Layers is 6.           |
|  | Not to Be Tipped                                  |
|  | Storage and Transportation Temperature Limitation |



### **Section III. Basic parameters and conditions of use**

#### **1. Basic Specification**

- a) System Embedded software system
- b) Interface USB
- c) Size 185×135×48(mm)
- d) Weight < 1.5kg
- e) Temperature range 40°C~60°C
- f) Accuracy of temperature control ±1°C

#### **2. Operation conditions**

- a) Operation temperature 2°C~30°C
- b) Humidity 10%~80% (non-condensing)
- c) Atmospheric pressure 860hPa~1060hPa
- d) Power supply voltage 100-240Vac
- e) Power supply frequency 50/60Hz
- f) Equipment voltage 12V DC
- g) Input power 24VA
- h) Location Dry, clean, flat and horizontal surface

#### **3. Transportation and Storage**

- a) Ambient temperature -10°C~50°C
- b) Humidity 10%~80% (non-condensing)

## Section IV. Installation

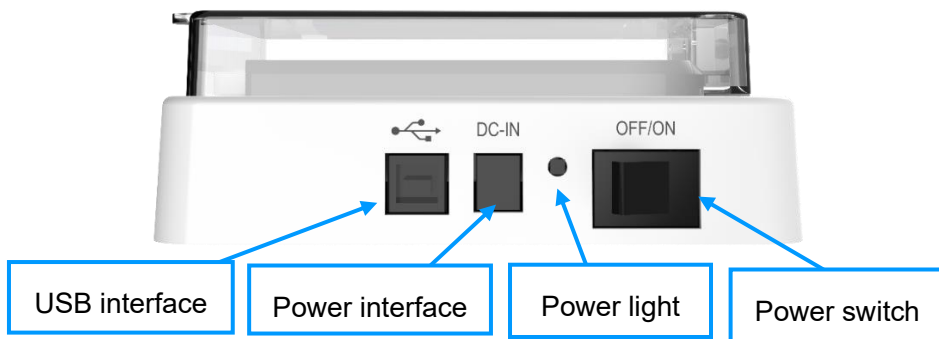
### 1. Power Requirements

The BioQuick incubator can only use the power adapter provided with the instrument. Do not use power adapters from other manufacturers. If the power adapter needs to be replaced, please contact your local sales representative in time.

### 2. Installation

Please use the instrument at an ambient temperature of 2°C~30°C (Note: the operating temperature of the test card should be based on its instruction manual), and the relative humidity of 10% ~ 80% (see Section III "Operation Conditions").

- 1.3. Place the BioQuick incubator on a stable operating table at least 10cm away from the edge of the table.
- 1.4. Connect the power adapter to the power connector of the BioQuick incubator.
- 1.5. Turn on the power switch to start, the indicator light starts to flash.

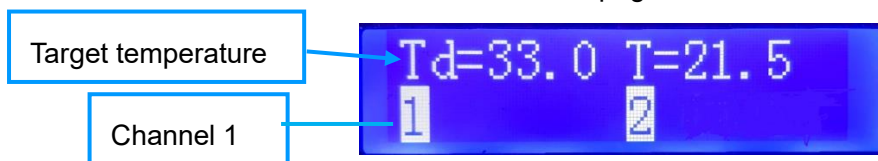


## Section V. Operation Instruction

The BioQuick incubator provides incubate environment for the test card.

### 1. Start

Turn on the instrument and enter the homepage, as shown below:



### 2. Incubate

2.1. When the current temperature reaches the target temperature, the prompt sounds three times. The test card can be inserted in the incubation channel.

2.2. Click "Up / channel 1" to start timing of the channel 1.

*Tips: Long press the button "Up / channel 1" to cancel the timing of channel 1.*

2.3. Click "Down / channel 2" to start timing of the channel 2.

*Tips: Long press the button "Down / channel 2" to cancel the timing of channel 2.*

2.4. When the timer reaches the incubation time, the prompt sounds;

2.5. Click "OK" button to turn off the prompt sound.

### 3. Settings

Click "Setting" button to enter the incubation temperature setting interface, incubation time setting interface, and prompt tone setting interface.

### 3.1. Set the incubation temperature

After entering the incubation temperature setting interface, you can switch the incubation temperature by pressing the "Up " and "Down" button. Click "OK" to save the current settings and the settings will take effect.

Note: The set temperature cannot be lower than room temperature. The setting temperature range is 40-60℃.



### 3.2. Set the incubation time

After entering the incubation time setting interface of channel 1, you can switch the incubation time by pressing the "Up" and "Down" button. Click "OK" to save the current settings and the settings will take effect.



If you don't want to change the incubation time of channel 1, keep press "Setting" one more time and enter the incubation time setting surface of channel 2.

You can switch the incubation time by pressing the "Up" and "Down" button. Click "OK" to save the current settings and the settings will take effect.



Note: The setting range of timing is 0-15 minutes.

If you don't want to change the incubation time, keep press

“Setting” one more time and enter the prompt tone setting.

### 3.3. Set the prompt tone

After entering the prompt tone setting interface, you can set the volume by pressing the "Up " and "Down" button. Click "OK " to save the current settings and the settings will take effect.

Note: The setting range of prompt tone is 0-3 level.



### 3.4. Shut down

The instrument can be turned off by turning off the power switch on the back of the instrument. If the instrument is turned off during operation, the incubating reagent card or reagent cup will stop incubation.

### 3.5. Analysis and handling of abnormal operation

- a) If it can't be turned on, please check whether the connection cable between the instrument and the power adapter is abnormal.
- b) If the target temperature is still not reached when the time of temperature stabilization in the technical specifications is exceeded during operation, check whether the shielding distance around the instrument meets the requirements.

## Section VI. Maintenance

### 1. External cleaning

Use a damp cloth with 0.5% bleach, 70% isopropyl alcohol, or 70% ethanol to clean the external surface of instrument. To prevent damages of screen or other surface device, strong bleach (bleach concentration more than 0.5%), oxidizing substances and solvents are prohibited.

### 2. Decontamination

If the instrument needs maintenance or replacement after use, decontamination and disinfection should be done before repacking and transporting. Use disinfectant (e.g. bleach concentration less than 0.1%) and wiper to scrub external surface of instrument completely. To prevent damages of inner devices, spray-washing or clean any internal parts and inner surface with disinfectant is prohibited.

### 3. Maintenance

In addition to daily cleaning, the incubator also needs regular maintenance. When inserting a test card into the incubator, any spilled liquid should be wiped away.



**Note:** The instrument does not contain components that can be repaired by the operator, and regular maintenance must be performed by authorized technical service personnel to avoid electric shock.

### 4. Precautions

- Except for the test card provided by the manufacturer, do not put other items into the test card carrying slot.

- Do not splash liquid on the BioQuick incubator, this may cause the system failure.
- Never drop the BioQuick incubator from a high place or other collisions.
- Do not place the BioQuick incubator under a mechanical vibration.
- Do not disassemble the BioQuick incubator without the written authorization of its sales representative.
- Do not place heavy objects on the BioQuick incubator. This will cause the performance of the BioQuick incubator to deteriorate or mechanical damage.
- Do not place the device where it is difficult to disconnect the device.
- The power socket must be properly grounded. Improper grounding may cause electric shock and system damage.
- Only use the specific power adapter for BioQuick incubator.
- Please use the BioQuick incubator in the environment specified in Section III.
- If the BioQuick incubator has been damaged due to maintenance, handling or damage during transportation, please contact us.
- Professionals used only.



**Note:** When using the BioQuick incubator, it is necessary to comply with the operation conditions in Section III and the precautions required in Section VI. Otherwise, the built-in safety features of the BioQuick incubator may cause electrical, mechanical or biohazard to the operator.

## Section VII. Troubleshooting

| Phenomena                                 | Probable Cause  | Recommended Measures                                 |
|---|---|--|
| Incubator does not response               | Power Failure   | Check the Power Plug                                 |
|   | Poor Connection between the Power Adapter and the Cord. | Pull out the cord and reconnect firmly.              |
|   | Power switch is off.                                    | Turn on the main switch.                             |
|   | Power Adapter is broken.                                | Call the Customer Service                            |
| Display Screen does not function properly | Electrostatic Influence                                 | Discharge any static electricity, reboot the system. |
|   | Electric Circuit Failure.                               | Call the Customer Service                            |



## Section VIII. Service, Maintenance and Disposal

Please contact us if you need service or maintenance.

Except for cleaning regularly, this incubator doesn't require special maintenance. Wipe the appearance of the incubator with a soft dry cloth to ensure the normal operation of the incubator.

### 1. Recall process

If the incubator fails, please contact us for consultation. If the device does need to be returned to the factory, you will get a recall number and we will send an alternative incubator. Users can check the recall number on the package and use this alternative package to transport the failure instrument back.

### 2. Destruction

If the customer wants to destroy the incubator in any reasons, it is recommended to destroy it in accordance with the electronic equipment regulations.



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