

# BAS Human-body Elements Analyzer

VER:V1.0

## User manual



## Warning

Dear user:

Thanks for using our company's products, in order to fully make use of the products, we sincerely suggests follow:

- ◆ ◆ Please read this instruction in detail, and keep it well for further reading and consulting.
- ◆ ◆ Please follow the struction to fit and operate the machine correctly.
- ◆ ◆ Please do not remove and change any accessories of the machine.
- ◆ ◆ It forbids others to open and remove the mainframe except the authorized people in the company.
- ◆ ◆ It forbids others to change and maintain the machine except the professional people.
- ◆ ◆ Please contact us if there is any trouble during operation.

This product does not belong to medical, please don't use for diease treament!

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## General introduction

The human body is the most complex machines in the world, while we know little about it. Many young people feel that they are healthy and no health problems exist. But in fact, in the modern society today, many factors ruin our health , such as the tight rhythm of life, the heavy pressure of work and studying, long-term irregular life, bad diet, poor quality of sleep, lack of physical exercise and etc. Health departs slowly and inadvertently, and we do not realize the physical, physiological and functional changes happen to our body. It always too late to go to the hospital for an examination when we feel there are problems, because we have already missed the best time for treatment.

Only those who know themselves can be kind to their own. The constitution is the comprehensive reflection of conformation and physical function of human body, also is the important basis for health. Today in the modern world , people are generally in sub-healthy status, regular tests can help one understand their own physical health status so that they can have targeted treatment in body slimming, and do exercise and disease prevention.

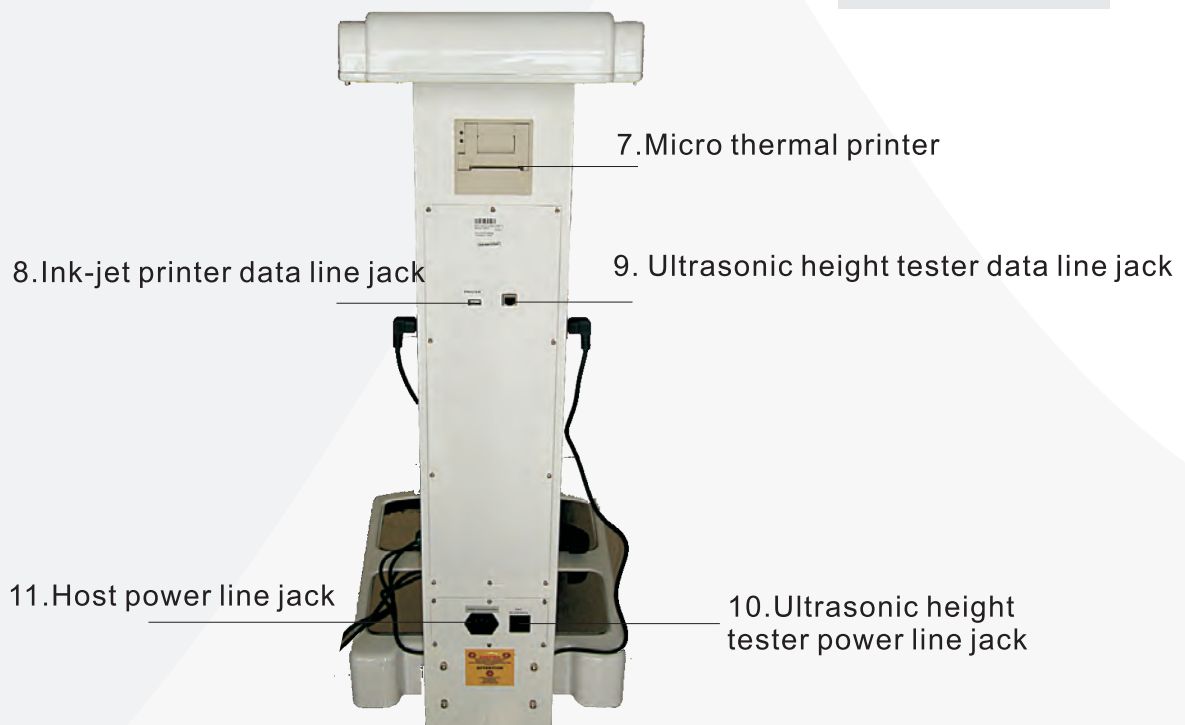
Human-body Elements Analyse Instrment applies multi-frequency bioelectrical impedance test Principle, using 8 points touching the electrode method to test impedance and composition of the elements in all parts of the human body ,including the health situation analysis (including: weight, protein, fat, water, abio-salf, waist-hip ratio, etc.) It can provide scientific data for weight control, diet, slimming, muscle training, nutrition balance and diagnosis of diseases and etc. The instrument has the functions of body composition analysis, muscle-fat analysis obesity analysis and health assessment.

Widely used in hospitals, rehabilitation centers, aerobics and slimming centers, sports and fitness clubs and other fields.

## Parts introduction



Host obverse



Host reverse

## Operation

### I . Preparation

1. Please check whether the supply voltage line with the equipment, the power supply should have good and safe grounding device and anti-leakage devices switches.
2. Insert two Hand electrode to the output jack[4] which located at two sides of the host column respectively, and please hang it refer to the picture.
3. Connect host's power line[11].
4. Make sure that there are no heavy objects on the subassembly base.

### II .Correct usage

Turned on general power switch [5] wait for 10 seconds, the machine stay standby, the screen shows as (Fig 1). Input the default password "000000" to enter interface as (Fig 2) shows.

### Test function

Click "TEST" in interface (Fig 2) to enter interface as (Fig 3) shows.

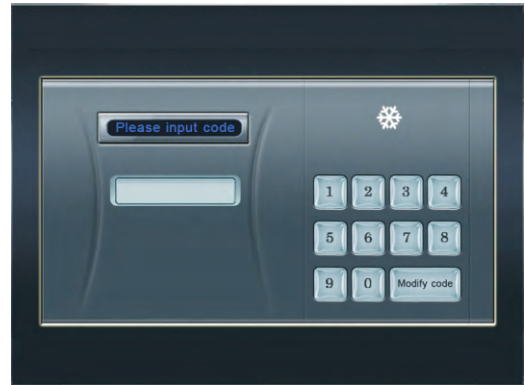
#### 1. "NEW" procedure:

Click "NEW" to enter an interface as (Fig 4) shows, then input customer information.

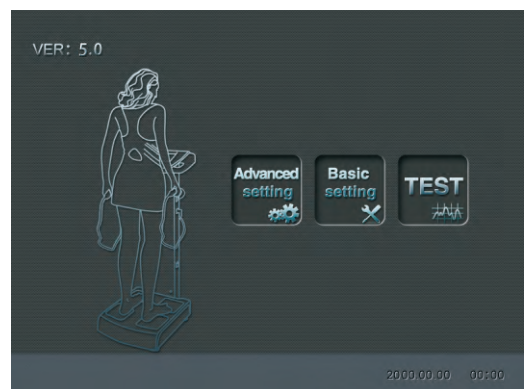
- (1) Click the "ID" on the screen , input numbers or English letters;
- (2) Click the "Age" , input numbers (10 ~ 99 years);
- (3) Click the "Sex" on the screen and then choose "F" or "M", "F" on behalf of women, "M" representing male;
- (4) Click the "Height" on the screen, input numbers (110cm to 230cm) into it;
- (5) If there is a mistake during the input process, you can click on the item which need modification, then input again;
- (6) If the data get input correctly, click "Next" to enter interface as (Fig 5) shows.

#### Notes:

If the input value is out of the setting range, please click "Next" and the system will check the errors automatically, and the interface will not change.



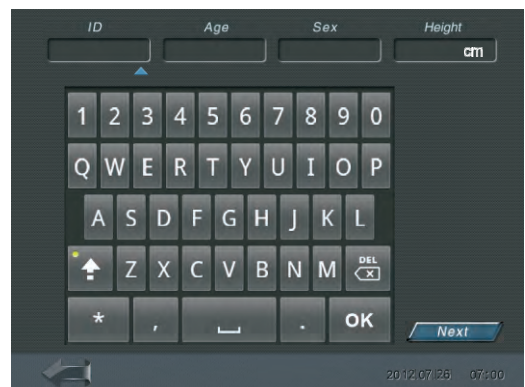
(Fig 1)



(Fig 2)



(Fig 3)



(Fig 4)

## 1.Weight test

In the weight test interface (Fig 5), make sure the tester stand in steady and static state on the weighing platform, with feet standing on the electrode board, arms natural hanging, do not wave or jump. Figures on screen will be gradually increased to the tester's actual weight and the screen displayed "testing...". There will be a sound hint like "de" when the test completed. The interface will enter into (Fig 6) shows automatically. If you need to validate whether it is accurate enough, please click "Reset weight" to test one more time.

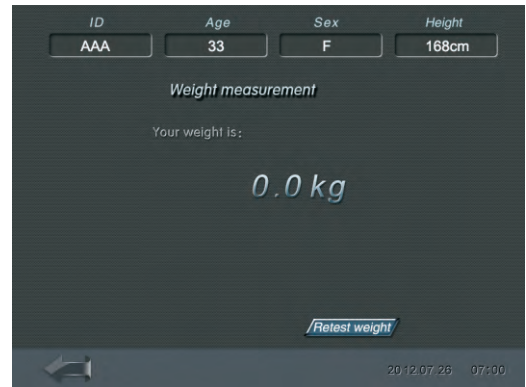
### Notes:

If there are errors during the test procedure, the interfaces will not be switched, and you need to click "←" to return to the interface as (Fig 3), and then test in the correct way.

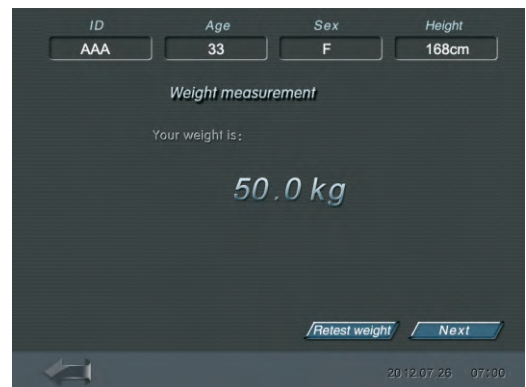
## 2.Body elements test:

- (1)Input data, when the weight test finished, the tester grips the electrode correctly, In the interface (Fig 6), click "Next" to enter interface as (Fig 7) shows. This figure tell you the method to test body elements.
- (2)Click "Next" to enter interface as (Fig 8)shows. Begin testing...
- (3)When the body composition test completed, there will be a sound hint like "de". The screen present interface as (Fig 9) shows.

To print test results, please click "Print". The printer then output analysis report. If the printer get a problem and unavailable, the screen will shows "🖨️" in interface as (Fig 3) shows.



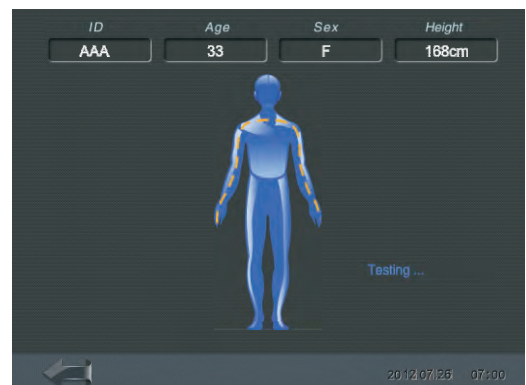
(Fig 5)



(Fig 6)



(Fig 7)



(Fig 8)

## OPEN procedure

In interface as the (Fig 3) shows, Click the storage of customer information (ID or number), Then click on “OPEN” to interface as the (Fig 10)shows. on the screen shows the customers previous test data records.

“OPEN” is primary for customers to clearly understand their body composition changes from the data, and it will be easy to make a contrast.

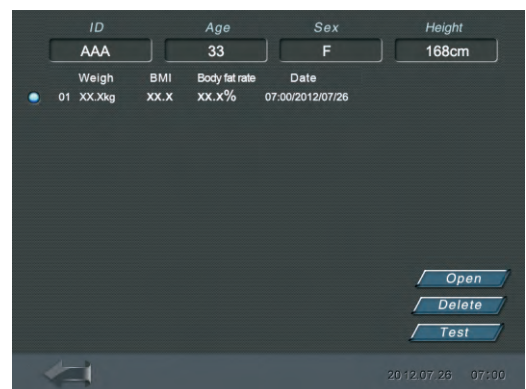
In interface as (Fig 10), click the result number which you want to review, Click “Open” to enter the interface as (Fig 9)shows.

In interface as (Fig 10), click the result number which you want to delete, Click “Delete” to enter the interface as (Fig 11)shows.

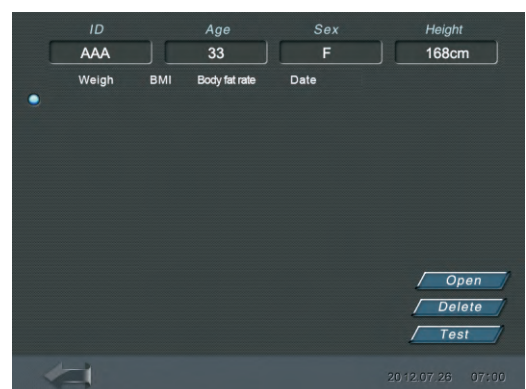
In interface as (Fig 10), to test again, please stand with the correct posture on the weighing platform, Click “Test” to enter the interface as (Fig 5) shows to reset weight.



(Fig 9)



(Fig 10)



(Fig 11)

## DELETE function

In interface as (Fig 3) click “DELETE” will enter the interface as (Fig 12)shows, Click “Yes” means to delete all the information of the selected customer.

In interface as Figure(10) in “Open” program, click the "Delete" means to delete the current record.

## FIND program

“Find” helps to find customer information in the quickest way. E.g: the first letter of clients 'name is “A”.So to click “Find” in interface (Fig 3) to enter interface as (Fig 13), then click “A”, then click “🔍”, and on the screen will be name of “A”. Click the name you wanted and ,and there will be the test record of the client. The search will be quicker if you input the full name.

## TEST procedures



To find the name of the client in interface as (Fig 3) and click “Test” will enter interface as (Fig 5) shows to reset weight.



(Fig 12)

## “Setting” function

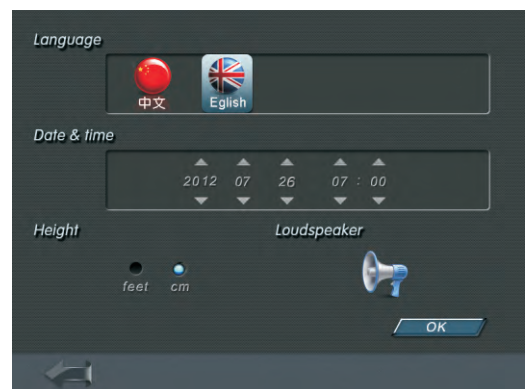
In interface (Fig 2), Click “basic setting” to enter interface as the(Fig 14) shows.

- (1) Click for languages options (English, Simplified Chinese) .
- (2)Click on“▲”key or“▼” for date, time settings.
- (3)Click “feet” or “cm” for change height units.
- (4)Click “” to choose Quiet or Speaker.
- (5)Click “ok” to save the setting and return interface as (Fig 2)
- (6)Click “” to return the interface as (Fig 2) without saving.

**Notes “advanced setting” is for manufacturer only.**



(Fig 13)



(Fig 14)

## About Printer

### 1.Replacement of thermal printer paper

(1)



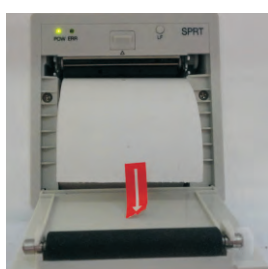
**thermal printer**

(2)



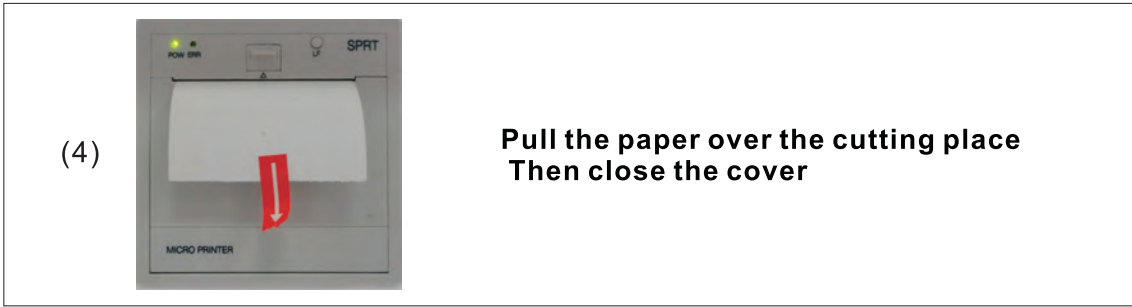
**Open the cover**

(3)



**Put into the printing paper, upwards**





## 2.Usage of ink-jet printer

1. Connect the printer data lines to the host jack[8].
2. Connect the printer power line well.
3. Press the ON-OFF of the printer, there will be words "USB" in interface as (Fig 3).On behalf of ink-jet printer is available.

Tips: when using inkjet printers, do not load print paper in micro Thermal printer.

## 3.The tips and FAQ for Ink jet printer

### Failure 1, The host BAS cannot detect USB ink jet printers

Analysis and processing:

- 1) to confirm the cable between the printer and BAS host is Connected.
- 2)Check whether the printer driver procedure is installed, to test if the printer is working.

### Failure 2, only print half of the report.

Analysis and processing:

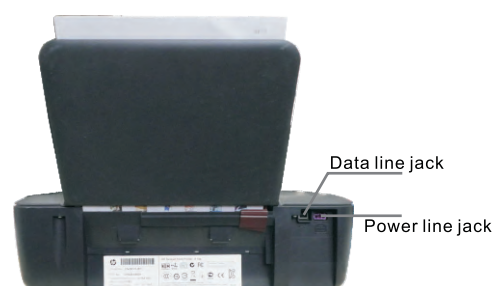
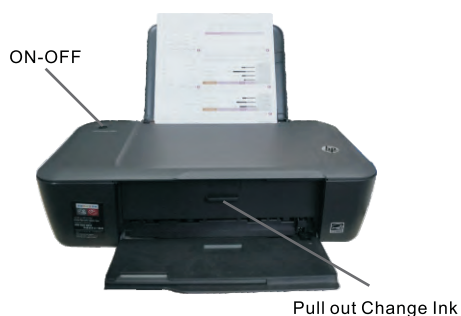
- 1) Check whether the ink runs out.
- 2) Long-term no use or ink solidified caused by cold weather.

\* above, please replace the printer cartridge.

### Failure 3, the printer jams.

Analysis and processing:

Turn off the printer, and slowly pull out the paper, if some remain in the printer, open the printer cover, remove all of the printing paper debris.



▲ **Note:** All questions on the printer's fault and maintenance, please contact directly with the HP Co., Ltd.. Please keep all information within the printer box for future inquiries and maintenance.

## Correct test posture



### Body posture

The correct posture is standard stand posture, with arms and feet departed, to get an accurate test result, please remove your heavy clothes and other objects away.

When testing, please keep your arms hanging naturally with a 15-degree angle to the body, and contacts between the body and legs should be avoided.

Keep relaxed, never be tense, move or speak loudly.



### Correct posture to grip electrodes

To grip electrode rods with two hands, keep your fingers gripping on the inside of the electrode respectively and equably, press the outside pole of the electrode rod. Do not press electrode parcel with your fingernails. And do not loosen it throughout the testing process. If there is a protective layer on the electrode, please remove it.



### Correct posture to stand on electrode



- A. Stand with bare foot on the electrode parcel.
- B. Keep the heel stomping on the circular electrode parcel, the soles standing on the oval electrode parcel.
- C. If the feet are too small, please let the feet stand between electrode parcels located front and rear, to ensure that feet can fully come into contact with the electrode parcels at two ends.
- D. If there are thick calluses on the soles or unclean objects on feet, it may affect the normal test, please wipe it with a wet towel.

## Test method

▲ The best time for testing is 2 or 3 hours after meal, you'd better keep limosis and have been gone to the washroom.

▲ The best time for fat test is 5 or 6 o'clock in the afternoon.

## Notes

|                       |  |  |
|-----------------------|--|--|
| <b>Host</b>           | <ol style="list-style-type: none"> <li>1. Please use the three cores power line matching with the equipment, and security grounding devices must be used.</li> <li>2. Do not use or place it in the dank and heated bathroom, kitchen, or other dusty places.</li> <li>3. To avoid places which exist strong magnetic field or radio waves.</li> <li>4. Except for professionals or company' authorized officers, nobody is allowed to take the main stream apart or open the machines cover.</li> <li>5. Maintenance from unprofessional is not allowed; or else one have to take full responsibilities.</li> </ol> |  |
| <b>Touch screen</b>   | <ol style="list-style-type: none"> <li>1. Do not attach cosmetics, liquid or other dirties to the touch screens.</li> <li>2. Do not use alcohol, laundry powder or other detergents to scrub the touch screens directly; please use soft-wet towels to wipe with special detergent when clean it.</li> <li>3. Do not use sharp, heavy items hammer the touch screen.</li> </ol>  |  |
| <b>Hand electrode</b> | <ol style="list-style-type: none"> <li>1. Do not use fingernails to touch the electrode parcel; it may damage the electrode rods, affecting the accuracy of test results.</li> <li>2. Do not squeeze the electrode parcel excessively with your fingers.</li> <li>3. Do not throw or impact hard.</li> </ol>   |   |
| <b>Chassis</b>        | <ol style="list-style-type: none"> <li>1. No shoes at the base, to avoid scratches on electrode parcel.</li> <li>2. Do not jump or stampede heavily on the base.</li> <li>3. During operation, if the tester has got down from the weighing platform, we have to wait 10 seconds before the next test.</li> <li>4. Do not let pants interfere with the contacts between heels and the electrode parcel.</li> <li>5. Do not let water splash electrode parcel when use wet towel.</li> <li>6. Keep the weighing platform clean and no other things on it. ◦</li> </ol>  |  |

## Contraindications

1. The one who installed heart pacemakers and pregnant women are prohibited.
2. Patients who are disabled or equipped with metal artificial body are not fit for use.

## Noun Explanations

|   |
|---|
| Noun Explanations:  |
| Water content: Sum of intracellular and extra cellular fluid.   |
| Protein: Mostly stock in the muscle cells, is the reflection of the nutrition status.   |
| Inorganic salt: Weight of the bones.  |
| Body fat: Sum of subcutaneous fat, visceral fat and muscle fat.   |
| Weight: Total weight of the body.   |
| Fat-free weight: Make up by water contain, protein and abi-osalt  |
| .Obesity Analysis: Body Mass Parameters(BMI)) cannot evaluate the Conner's obesity information fully. Adding two parameters(body fat percent rate and waist-hip fat ratio, can make the evaluation more accurate and effective. |

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## Technical parameters

Voltage: AC100V□~240V□/50Hz□~60Hz □

Power: ≤53VA

## Annex List

|                          |                                     |
|--------------------------|-------------------------------------|
| 1.Hand electrode         | 1 pair                              |
| 2.Host power supply line | 1 pc                                |
| 3.Crystal data line      | 1 pc                                |
| 4.HP printer             | 1 set                               |
| 5.Printer data line      | 1 pc                                |
| 6.Printer power line     | 1 pc                                |
| 7.Color print paper      | 100 pcs                             |
| 8.Thermal print paper    | 9 rolls(size:high:57mm width: 30mm) |
| 9.Salver                 | 1 pc                                |
| 10.Hexagon screw         | 10 pcs                              |
| 11.Hexagon screwdriver   | 1 pc                                |
| 12.Use manual            | 1 copy                              |