

Body Composition Analyzer and Scale

SF1402B

Instruction Manual

- Thanks for purchasing the **Body Composition Analyzer and Scale** manufactured by Bpump.
- Please read the instruction manual before usage;
- Please dispose the **Body Composition Analyzer and Scale** and battery in accordance with local regulations.

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1. Safety Information

1.1. Danger

(Operation errors lead to death or serious injury) 

Do not use in conjunction with following electronic medical device in avoid of life threatening.

- Implantable medical device such as pacemakers;
- Life-sustaining medical device such as artificial heart;
- Pregnant women are not suggested to use the device for physiological index measurements such as body fat ratio.

1.2. Warning

(Operation errors may lead to death or serious injury) 

- Do not use in slippery, unsmooth, or wet places in avoid of user's falling injury;
- Do not use in when body or feet is wet in avoid of user's falling injury, as well as in avoid of water entering the device, which may cause inaccurate measurement;
- Do not tilt, drop the device, do not drop other objects to the device in avoid of strong vibration or impact to the device.
- Please carefully dealing with broken glass pieces if device broken in avoid of hurt.
- Do not stand on the edge of the device in avoid of inaccurate measurement.
- Do not jump on the device in avoid of falling injury or device damage.
- Do not self-diagnosis on basis of the measurement results, it is important that the users who want to lose weight or conduct kinesitherapy should consult doctor or medical professional in avoid of body harm.
- Do not mix old and new batteries in avoid of harm caused by battery leakage, fever or broken.
- People with disabilities must use the device under others' help in avoid of slipping damage.
- Do not use in conjunction with certain medical electronic instruments such as ECG in avoid of affecting measurement result.

1.3. Precaution

(Operation errors may lead to operator injury or device damage) 

- Do not attempt to disassemble, repair or modify the device in avoid of inaccurate measurement.
- Keep out of reach of infants, small children in avoid of harm caused by device

falling.

- Please do not reverse the battery poles during battery replacement in avoid of harm caused by battery leakage, fever or broken.
- Please take out the battery in case of non-use for a long time (3 months above).
- Please stand up straight and keep still during the measurement in avoid of affecting measurement result.
- Please do not place the device where has water, direct sunlight, direct air condition wind, please do not place next to the fireworks. Otherwise it may malfunction.
- This device is in conformity with the relevant requirements of the YY0505-2012 electromagnetic compatibility standard.
- Users should install and use the device according to the electromagnetic compatibility information in accompanying files.
- Avoid strong electromagnetic interference during usage because portable and mobile radio frequency communication equipments may affect the device performance, do not close to the cell phones, microwave ovens.
- Please refer to electromagnetic compatibility guidance for electromagnetic compatibility detail and of manufacturer's declaration.

◆ **Note:**

The following population may unable to gain measurement values or gain inaccurate measurement values because whose body composition may differ widely from the mean value:

Children under the age of 18/ elders aging over 65/ menopause women/ patients in fever due to cold/ pregnants/ patients with low bone mineral density(BMD)/ patients with edema disease/ hemodialysis patients/ sportsmen.

2. Indication for Use

The device is used for the measuring and calculating of the body physiological indexs such as body fat ratio, water content, body mass index (BMI), visceral fat index, **muscle mass**, bone content, basal metabolism, physical age through measuring electrical impedance changes in a region of the body.

3. Product Structure

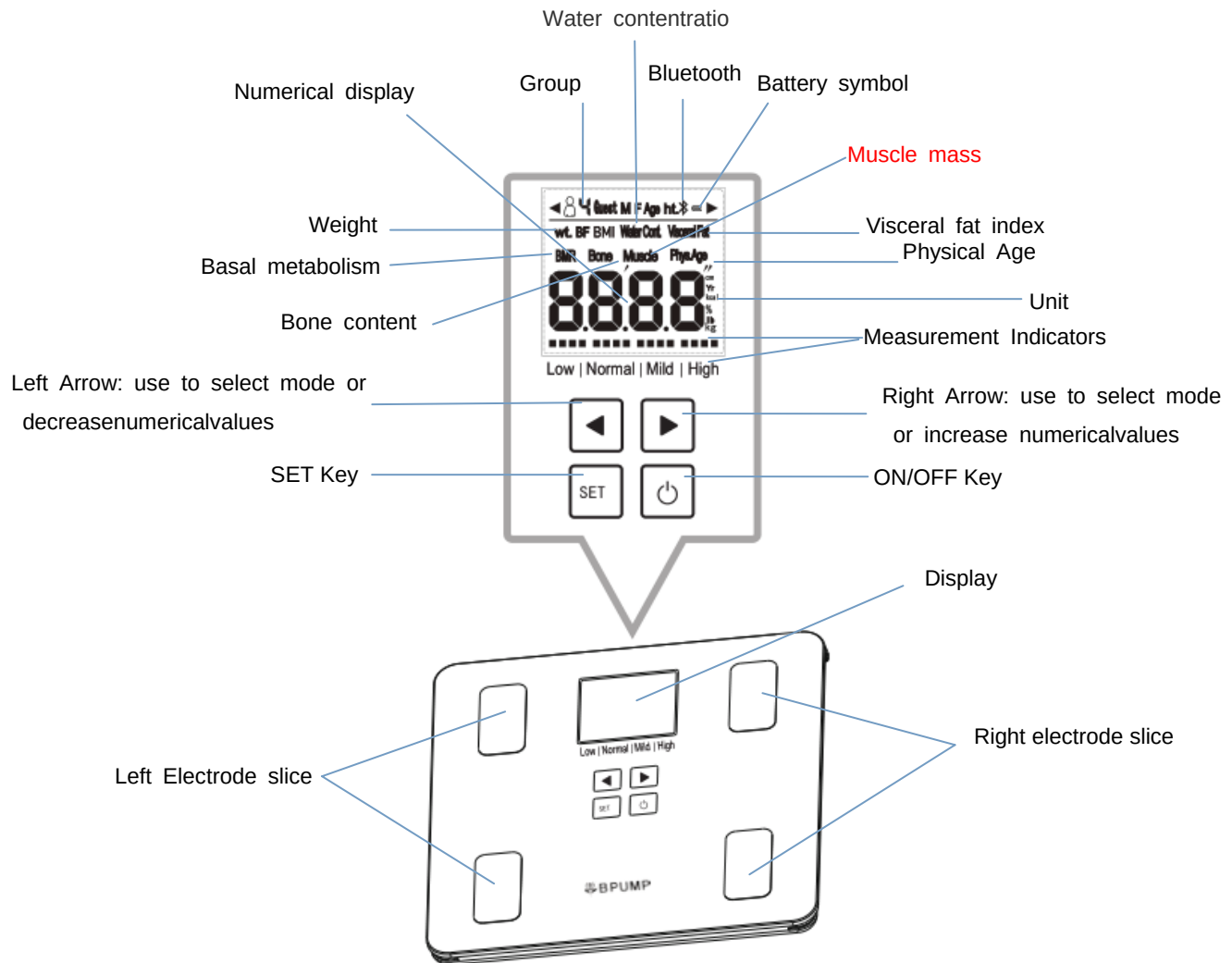


Fig 1

4. Operation Instruction

4.1. Precautions in Use

- Do not use the device under strong electrostatic or electromagnetic environment, otherwise may cause inaccurate measurement or device failure;
- Take measurement barefoot, otherwise it is unable to gain accurate physiological indexes such as body fat ratio;
- Do not use the device above soft surfaces such as mats or carpet, otherwise the device surface may sink due to impact stepped on, which may lead to inaccurate measurement;
- In case of sharing device with patients having podiatric, dermatologic or other infectious diseases, clean the device before your use (wipe the device with wrung soft cloth which had been soaked with water or neutral detergent, then wipe the device with another dry soft cloth), otherwise may cause infection;
- The device is not intended to use except for the measurement of physiological indexes mentioned above;
- The device is not intended to use as items weighing for trade settlement purposes.

4.1. Power On/Off

Turn on the device and wait for a while, "0.0 kg" will display on the screen (fig 2);

Long press the power button for more 3 seconds to power off the device;

Note: The device will automatically power off if unattended for more than 1 minute;



Fig 2

4.2. Battery Installation and replacement

- 1) Turn over the device and remove the battery cover;
- 2) Install four AAA alkaline batteries in correct direction, pole with  symbol and spring is cathode side;
- 3) Install back the battery cover;

◆ Battery Life

- 1) Four AAA alkaline batteries will last for approximately 200 measurements,

if measurements are taken once a day at room temperature (23°C);

- 2) The batteries enclosed are used for trial, which may be used up soon;
- 3) Do not use rechargeable batteries, otherwise may cause misoperation.
 - ◆ Battery symbol flashing means that the battery is running out, replace four new AAA alkaline new batteries of same model if happens;
 - ◆ Please replace the battery at power off status;
 - ◆ The personal data seted in advance will be kept however battery replaced;

4.3. Personal Data Setting

Note:

- Set the “age, gender, height” information before physiological indexes measuring such as weight, body fat ratio, visceral fat index, BMI and others. The device can store four groups personal data at most;
- In addition to personal data setting, you can also use "guest" function to measure physiological indexes such as weight, the body fat ratio, visceral fat index and others;
- What is "guest" function? Instead of setting personal data in advance, user can also measure physiological indexes such as weight, body fat ratio, visceral fat index and others after temporary setting, but whose temporary setting would not be stored;

1) Power On

The device display "0.0 kg" after power on (fig 2);

2) Select group

Press  /  buttons to reach the group/guest you selected, then press SET button for confirmation (fig3);

3) Set Age

The first setting item is “Age”; Press  /  buttons to reach correct “Age”, then press SET button for confirmation (fig4);

4) Select Male/Female

The device enters Gender setting after Age setting in default;

Press  /  buttons to change from Female to Male, then press SET button for confirmation (fig5);

5) Set Height

The device enters Height setting after Gender setting in default;

Press  /  buttons to reach correct “Height”, then press SET button for

confirmation (fig6);



Fig 3



Fig 4

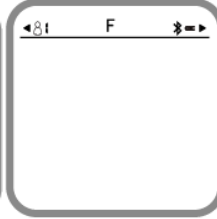


Fig 5



Fig 6

Setting is complete till now, you can start physiological indexes measurement such as weight, the body fat ratio, visceral fat index and others.

4.4. Take Measurement

4.4.1. Precautions for Measurement

- Personal data setting is needed if you want to use under “Group” function to track your measurement results; “Guest” function is an option if you do not need to store the personal data.
- Please take measurement on smooth, hard ground, take measurement above soft surfaces such as mats or carpet may lead to inaccurate measurement;

4.4.2. Steps for Measurements

4.4.2.1. Whole physiological Indexes Measurement

1) Power On/Off

Turn on the device and wait for a while, then "0.0 kg" will show on the screen (fig 2);

2) Personal Data Setting

Set the personal data as section 3.3 instructs;

3) Physiological Indexes Measurement

- (1) Step onto the platform with correct posture barefoot, otherwise the device is unable to display correct physiological indexes (fig 10, fig 11);
- (2) Stand still and keep your posture for a while, the weight value will display on the screen automatically;
- (3) Don't move after weight measuring, the device will automatically measure the following physiological indexes such as body fat ratio, visceral fat index and others;
- (4) Step off the platform after the measurement done;

Note:  on the screen indicates the device has finished measurement (fig 12);

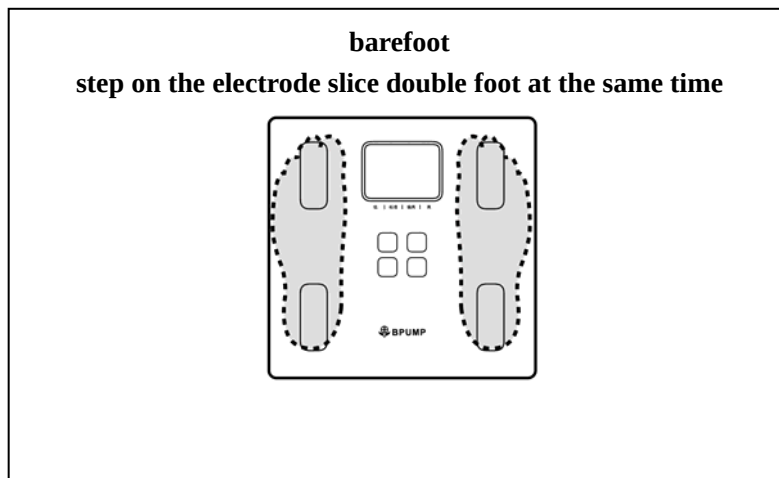


Fig 10

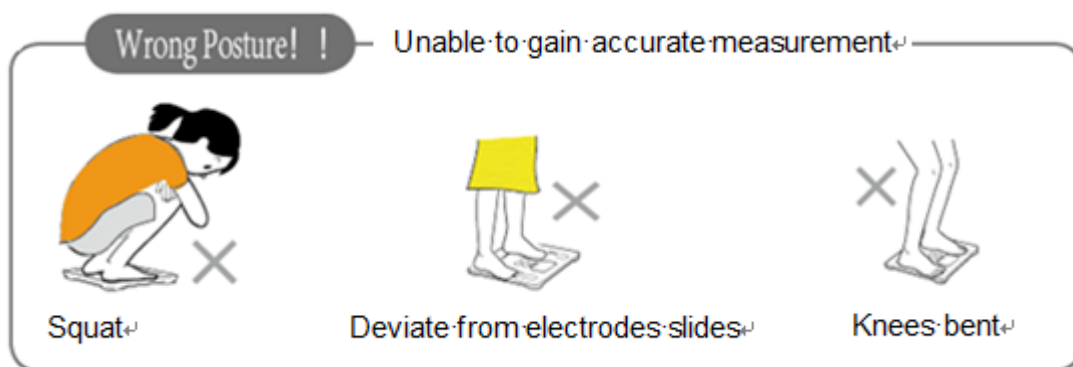


Fig 11



Fig 12

4.4.2.2. Weight Measurement Only

1) Power On/Off

Power on the device and wait for a while, "0.0 kg" will appear on the screen (fig 2);

Note: automatic power on can be triggered in case a person/thing upon weighting over

10kg on the device.

2) Weight Measurement

- (1) Step onto the platform with correct posture barefoot, otherwise the device is unable to display correct physiological indexes (fig 10, fig 11);
- (2) Stand still and keep your posture for a while, the weight value will display on the screen (fig 13);
- (3) Step off the platform after the measurement done;



Fig 13

4.4.3. Display the Measurement Result

4.4.3.1. Physiological Indexes Display

The device will automatically circular display the measuring values,

press ◀/▶ for reviewing previous data in sequence as fig 14.

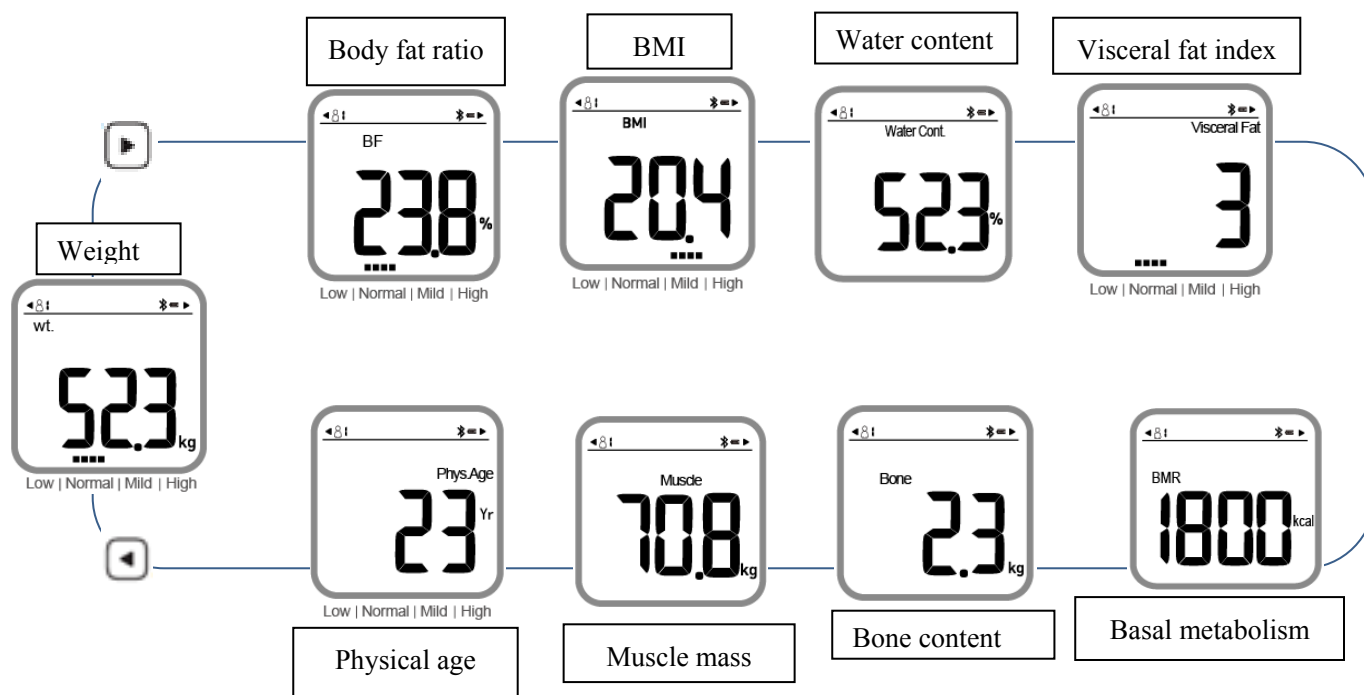


Fig 14
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4.4.3.2. Unit Switch

Under standby status (showing "0.0 kg" on the screen), you can enter "unit switch" interface by long pressing "SET" button; use / buttons to select the unit, then press SET button for confirmation; The available units are metric and imperial such as "cm , kg", "ft, lb "(fig15, fig 16).



Fig 15



Fig 16

4.4.4. Data Transmission

The bluetooth function turns on in accompany with the powering on of the device, which can be searched by corresponding app used for physiological indexes management on cellphone. The measurement result will be transmitted to the app automatically.

5. Reference Standards

5.1. Weight Standard

Weight	Result
$\leq -10.0\%$	Low
$-9.9\% \sim 9.9\%$	Normal
$10.0\% \sim 19.9\%$	Mild
$\geq 20.0\%$	High

5.2. Body Fat Ratio Standard

Body Fat Ratio is the proportion of fat to the total body weight.

Body Fat Ratio		Result
Male	Female	
2.0~13.9%	10.0~20.9%	Low
14.0~17.9%	21.0~24.9%	Normal
18.0~24.9%	25.0~31.9%	Mild
$\geq 25.0\%$	$\geq 32.0\%$	High

5.3. Water Content Standard

Total Body Water is the total amount of fluid in the body expressed as a percentage of total weight.

By weight, the average human adult male is approximately 60% water.

By weight, the average human adult female is approximately 50% water.

5.4. Visceral Fat Index Standard

Visceral fat is located deep in the core abdominal area, surrounding and protecting the vital organs.

Visceral Fat index	Result
1~9	Normal
10~14	Mild
15~30	High

*Visceral fat index is always a rough number, the relevant medical diagnosis, consult a doctor.

5.5. BMI (Body Mass Index)

A standardised ratio of weight to height, used as a general indicator of health.

BMI	Result
18.8~22.9	Normal
24~27	Mild
≤ 28	High

5.6. Muscle Mass

Muscle Mass (including skeletal and smooth muscle) make up 70% of weight in ordinary population.

5.7. The Average Bone Mass Presumption

	Male			Female		
Weight	$\leq 60\text{k}$	60kg~75kg	$\geq 75\text{kg}$	$\leq 45\text{kg}$	45kg~60kg	$\geq 60\text{kg}$
bone mass presumption	3.2kg	3.95kg	4.4kg	2.2kg	2.8kg	2.9kg

5.8. Basal Metabolism

Age	Male			Female		
	ideal body weight(kcal)	Basal metabolism standard values (kcal/kg/day)	Basal metabolism amount (kcal/day)	ideal body weight(kcal)	Basal metabolism standard values (kcal/kg/day)	Basal metabolism amount (kcal/day)
18~29	64.7	24	1550	51.2	23.6	1210
30~49	67	22.3	1500	54.2	21.7	1170
50~69	62.5	21.5	1350	53.8	20.7	1110
70 $\leq$	56.7	21.5	1220	48.7	20.7	1010

5.9. Physical Age

Physical age, namely the actual metabolic age.

6. Error Indication

Error	Cause	Correction
Err	1) The user sways or leaves the device during measurement;	Do not sway or leave during measurement;
	2) Do not take measurement barefoot;	Take measurement barefoot;
	3) The device is unable to detect the human impedance.	Step onto the platform with correct posture barefoot to take measurement.
H	Exceeds the biggest weighing range;	Use within the measuring range of device;

7. Trouble Shooting

PROBLEM	CAUSE	CORRECTION
Device shows "0.0 kg", or almost no value. increase after stepping on;	Step onto the device before "0.0" displayed;	Step onto the device after "0.0" displayed;
Abnormally high or low measurement value;		
Abnormally high or low measurement value; The measurement value differs widely for each measurements;	Wrong Posture;	Please follow the correct posture measurement.
	Take Measurement on soft or unsmooth ground such as carpet;	Please measure on the smooth, hard ground.
	Foot or body is too cold due to bad blood circulation;	Take measurement after blood circulation back to normal state;
	Electrode is too cold.	Place the device in warm indoor place for a while, Take measurement after electrode become warm.
	The soles of foot are too dry.	Slightly humidify the feet by wiping the feet with a wet towel; Take measurement after electrode become
Measurement Values disappears immediately after displayed;	Battery runs out;	Change the battery;
No display after pressing the ON/OFF button	No battery;	Install the battery;.
	Incorrect installation of battery;	Install the batteries correctly;
	Battery runs out.	Please change the battery;

*Malfunction means unable to measure correctly after taking action according to above solutions, please call the after-sales service hotline 4006 755 009 for help;

8. Product Specification

Product Name	Body Composition Analyzer and Scale	Model	SF1402B
Power Supply	4 AAA battery	Auto power off	Unattended 1min
Accuracy	≤50kg: ±0.4kg 50kg~100kg: ±0.5kg ≥100kg: ±0.6kg	Memory	4 groups parameters which have been seted up
Setting Item	Age: 7~99 years old Sex: Male/Female Height: 100~220cm	Display Range	Weight: 0.0kg~150.0kg Body Fat Ratio: 2.0%~75.0%(user: 7 to 99 years old) Water Content: 15.0%~75.0%(user: 18 to 99 years old) Bone Content: 1.0kg~5.0kg(user: 7 to 99 years old) Basal Metabolism: 500Kcal~3000Kcal (user: 18 to 99 years old) BMI: 2.0~90.0 (user: 7 to 99 years old) Physical Age: 15~85 years (user: 18 to 99 years old) Visceral Fat Index: 1~30 (user: 18 to 99 years old)
Display accuracy	Weight: 0.1kg Body Fat Rate: 0.1% Water Content: 0.1% Muscle Mass: 0.1kg Bone Content: 0.1kg Basal Metabolism: 1Kcal BMI: 0.1 Physical Age: 1year Visceral Fat Index: 1	Subregional Determination	1、Weight: Low/Normal/Mild/High (user: 18~65 years of age and pregnant women or the height of the abnormal population are not applicable) 2、Body Fat Rate: Low/Normal/Mild/High 3、BMI: Low/Normal/Mild/High (user: 18 to 99 years old) 4、Visceral Fat Index: Normal/Mild/High
Applied Part	Type BF 	Operating Environment	Temperature: +5℃~+40℃ Humidity: 15%~93% Pressure: 70.0kPa~106.0kPa; Altitude: ≤3000 m
Storage and transport Environment	Temperature: -25℃~+70℃ Humidity: 10%~95% Pressure: 50.0kPa~106.0kPa	External Dimension	320mm×320mm×28mm
Useful life	4 years	Weight	Approx 2.0kg
Contents	4 AAA test battery/Instruction Manual/Certificate		

This device is intended for home use and the specification may be changed without prior notice.

Disposal

This product must not be disposed together with the domestic waste.

All users are obliged to hand in all electrical or electronic devices, regard less of whether or not they contain toxic substances, at a municipal or commercial collection point so that they can be disposed of in an environ mentally accept able manner.

Please remove the battery before disposing of the equipment. Do not dispose of old batteries with your house hold waste, but dispose of them at a battery collection station at are cycling site or in a shop.

Consult your municipal authority or your dealer for information about disposal.

FCC statement:

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part15 of the FCC Rules . Operation is subject to the following two conditions:

- (1)This device may not cause harmful interference ,and
- (2)This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCCID: 2AAS7-SFA

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

9. CARE AND MAINTENANCE

9.1. Daily Maintenance

- The device should be cleaned before storage;
- Soft dry cloth can be used to remove dirt on the device;
- Do not wash the device, otherwise it may malfunction;
- Do not use volatile and harsh detergent to remove dirt, or device will be faded or malfunctioned;
- In case that device needing clean, wipe the device with wrung soft cloth which had been soaked in water or neutral detergent, then wipe the device with another dry soft cloth;

9.2. Storage Tips

Please do not storage in the following places:

- Where there is water;
- Location dusty, high salty;
- Exposed to high heat, high humidity or direct sunlight;
- Exposed to strong shock or vibration;
- Close to heating equipment;
- Close to explosive chemicals or corrosive gases.
- Under heavy objects or with device back on;
- Do not place heavy objects on the device.

◆ Electromagnetic Compatibility Guide

Important information regarding Electro Magnetic Compatibility (EMC)

With the increased number of electronic devices such as PC's and mobile (cellular) telephones, medical devices in use may be susceptible to electromagnetic interference from other devices. Electromagnetic interference may result in incorrect operation of the medical device and create a potentially unsafe situation.

In order to regulate the requirements for EMC (Electro Magnetic Compatibility) with the aim to prevent unsafe product situation, the IEC60601-1-2 standard has been implemented. This standard defines the levels of immunity to electromagnetic interferences as well as maximum levels of electromagnetic emissions for medical devices.

This medical device manufactured by pump conforms to this IEC60601-1-2:2007 standard for both immunity and emissions.

Nevertheless, special precautions need to be observed:

- Do not use mobile (cellular) telephones and other devices, which generate strong electrical or electromagnetic fields, near the medical device. This may result in incorrect operation of the unit and create a potentially unsafe situation. Recommendation is to keep a minimum distance of 7 m. Verify correct operation of the device in case the distance is shorter.

Further documentation in accordance with IEC60601-1-2:2007 is available at pump at the address mentioned in this user manual.

Guidance and manufacturer's declaration Guidance and manufacturer's declaration – electromagnetic emissions

The [EQUIPMENT or SYSTEM] is intended for use in the electromagnetic environment specified below. The customer or the user of the [EQUIPMENT or SYSTEM] should assure that it is used in such an environment.

Emissions test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11	Group 1	The [EQUIPMENT or SYSTEM] uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	
Harmonic emissions IEC 61000-3-2	Not applicable	
Voltage fluctuations/flicker emissions IEC 61000-3-3	Not applicable	

Guidance and manufacturer's declaration – electromagnetic immunity The [EQUIPMENT or SYSTEM] is intended for use in the electromagnetic environment specified below. The customer or the user of the [EQUIPMENT or SYSTEM] should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge (ESD) IEC 61000-4-2	± 6 kV contact ± 8 kV air	± 6 kV contact ± 8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%. If ESD interfere with the operation of equipment, counter measurements such as wrist strap, grounding shall be considered.
Electrical fast transient/burst IEC 61000-4-4	± 2 kV for power supply lines	Not applicable	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 1 kV differential mode ± 2 kV common mode	Not applicable	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	< 5% UT (>95% dip in UT) for 0.5 cycle 40% UT (60% dip in UT) for 5 cycles 70% UT (30% dip in UT) for 25 cycles < 5% UT (>95% dip in UT) for 5 sec	Not applicable	Mains power quality should be that of a typical commercial or hospital environment. If the user of the [equipment or system] requires continued operation during power mains interruptions, it is recommended that the [equipment or system] be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

**Guidance and manufacturer's declaration – electromagnetic immunity –
for EQUIPMENT and SYSTEMS that are not LIFE – SUPPORTING**

Guidance and manufacturer's declaration – electromagnetic immunity The [EQUIPMENT or SYSTEM] is intended for use in the electromagnetic environment specified below. The customer or the user of the [EQUIPMENT or SYSTEM] should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Conducted RF IEC 61000-4-6 Radiated RF IEC 61000-4-3	3 Vrms 150 kHz to 80 MHz 3 V/m 80 MHz to 2.5 GHz	Not applicable 3V/m	Portable and mobile RF communications equipment should be used no closer to any part of the [EQUIPMENT or SYSTEM], including cables, than the recommended separation distance calculated from the equation applicable to the frequency or the transmitter. Recommended separation distance $d = 1.2 p$ $d = 1.2 \text{ 80 MHz to 800 MHz } p$ $d = 2.3 \text{ 800 MHz to 2.5 GHz } p$ Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, should be less than the compliance level in each frequency range. Interference may occur in the vicinity of equipment marked with the following symbol: 

Recommended separation distances between portable and mobile
 RF communications equipment and the EQUIPMENT or SYSTEM –
 For EQUIPMENT and SYSTEMS that are not LIFE – SUPPORTING

Recommended separation distances between portable and mobile RF communications equipment and the [EQUIPMENT or SYSTEM]

The [EQUIPMENT or SYSTEM] is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the [EQUIPMENT or SYSTEM] can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the [EQUIPMENT or SYSTEM] as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter m		
	150 kHz to 80 MHz $d = 1.2p$	80 MHz to 800 MHz $d = 1.2p$	800 MHz to 2.5 GHz $d = 2.3p$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

◆ **Product Registration Information**

Production license No.: Guangdong FDA Device Production: 20081657

Registration certificate No/product specification No: Guangdong Device Registration: xxxxxxxx

◆ **After-Sale Service**

Manufacturing Enterprises: Shenzhen Pump Medical System Co., Ltd.



ADD: 2/F, M-7 SinosteelBuilding, Maqueling Estate, Hi-Tech Industrial Park, Nanshan District, Shenzhen, People's Republic of China

Zip Code: 518057

Tel: 86-755-26710795/26067119

Fax: 86-755-26012025

ServiceLine: 86-4006 755 009

E-mail:service@bpump.com.cn

Production date: see the label.