Швмс

User Manual RESmart GII CPAP System

E-20C-H-O / E-20CJ-H-O



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1. Symbols 1.1 Control Buttons 1 Ramp Button 凶 Mute Button Sn-nd Knob 1.2 Device Symbols 2 Follow Instructions for Use []i **Operating Instructions** 东 Type BF Applied Part (mask) Class II (Double Insulated) AC Power \sim DC Power ____ IP22 \geq 12.5 mm Diameter, Dripping (15° tilted) ASS. Hot Surface 慾 No SpO₂ Alarm SN Serial Number of the Product Manufacturer EC REP Authorized Representative in the European Community CE European CE Declaration of Conformity ßD SD Card \mathbf{x} Water Filling Prohibited Here ß Water Inlet Directional Indicator for Removing the Water Inlet Cap Directional Indicator for Screwing the Water Inlet Cap

2. Warning, Caution and Important Tip

WARNING!

Indicate the possibility of injury to the user or operator.

CAUTION!

Indicate the possibility of damage to the device.

IMPORTANT TIP!

Place emphasis on an operating characteristic.

Warnings, Cautions, and Important Tips appear throughout this manual as they apply.

3. Intended Use

The E-20C system is a CPAP (Continuous Positive Airway Pressure) device designed for the treatment of adult Obstructive Sleep Apnea (OSA) only, either in the hospital or at home.

The device is to be used only on the instruction of a licensed health care professional. Your home care provider will make the correct pressure settings according to your health care professional's prescription.

Several accessories are available to make your OSA treatment with this device as convenient and comfortable as possible. To ensure that you receive the safe, effective therapy prescribed for you, use only BMC accessories.

WARNINGS!

- This device is intended for adult use only.
- This device is not intended for life support.
- The instructions in this manual are not intended to supersede established medical protocols.

• Do not bring the device or accessories into a Magnetic Resonance (MR) environment as it may cause unacceptable risk to the patient or damage to the device or MR medical devices. The device and accessories have not been evaluated for safety in an MR environment.

• Do not use the device or accessories in an environment with electromagnetic equipment such as CT scanners, Diathermy, RFID and electromagnetic security systems (metal detectors) as it may cause unacceptable risk to the patient or damage to the device. Some electromagnetic sources may not be apparent, if you notice any unexplained changes in the performance of this device, if it is making unusual or harsh sounds, disconnect the power cord and discontinue use. Contact your home care provider.

CAUTION!

• This device is restricted to sale by or on the order of a physician.

IMPORTANT!

• Read and understand the entire user manual before operating this system. If you have any questions concerning the use of this system, contact your home care provider or health care professional.

4. Contraindications

Studies have shown that the following pre-existing conditions may contraindicate the use of positive airway pressure therapy for some patients:

Absolute Contraindications: pneumothorax, mediastinal emphysema; cerebrospinal fluid leak, traumatic brain injury, or pneumocephalus; shock caused by a variety of conditions before treatment; active epistaxis; upper gastrointestinal bleeding before treatment; coma or impaired consciousness making the use of mask during therapy impossible; giant vocal fold polyp, etc.

Relative Contraindications: severe coronary heart disease complicated with left ventricular failure, acute otitis media, excessive respiratory secretions and weak cough, weak spontaneous breathing, nasal or oral tracheal intubation and tracheotomy, severe nasal congestion caused by a variety of conditions, lung bullae, and allergies to breathing masks, etc.

The following side effects may occur during treatment:

- Dryness of the mouth, nose and throat
- Abdominal bloating
- Ear or sinus discomfort
- Eye irritation
- Skin irritation due to the use of a mask
- Chest discomfort

IMPORTANTS!

• An irregular sleep schedule, alcohol consumption, obesity, sleeping pills, or sedatives may aggravate your symptoms.

• Please use the mask which meets ISO 17510: 2015.

CAUTION!

• Contact your health care professional if symptoms of sleep apnea recur. Contact your health care professional if you have any questions concerning your therapy.

5. Specifications

Device Size

Dimensions: 170 mm \times 180 mm \times 118 mm, or 290 mm \times 180 mm \times 134 mm (with the humidifier)

Weight: 1.5 kg, or 2.5 kg (with the humidifier)

Product Use, Transport and Storage

Operation Temperature: 5°C to 35°C (41°F to 95°F) Humidity: 15% to 93% Non-condensing Atmospheric Pressure: 760 \sim 1060 hPa Transport and Storage -25°C to 70°C (-13°F to 158°F) 15% to 93% Non-condensing 760 ~ 1060 hPa

Mode of Operation

Continuous

Work Mode CPAP

SD Card

The SD card can record patient data and fault information.

AC Power Consumption 100 – 240 V AC, 50 / 60 Hz, 2.0 A max

Main Device offer to USB Communications Port 5 V ==== 2.0 A

Main Device offer to Humidifier 24 V === 1.5 A

Type of Protection Against Electric Shock

Class II Equipment

Degree of Protection Against Electric Shock Type BF Applied Part

Degree of Protection Against Ingress of Water IP22

Pressure Range 4 to 20 hPa (in 0.5 hPa increments), ≤30 hPa under single fault conditions.

Pressure Display Accuracy ±(0.5 hPa + 4%)

Static Pressure Stability ±0.5 hPa

Ramp

The ramp time ranges from 0 to 60 minutes.

Sound Pressure Level

< 30 dB, when the device is working at the pressure of 10 hPa.

Sound Power Level

<38 dB, when the device is working at the pressure of 10 hPa.

Maximum Flow

Test Pressures (hPa)	4	8	12	16	20
Measured Pressure at the Patient Connection Port (hPa)		7	11	15	19
Average Flow at the Patient Connection Port (L/min)	80	92	91.5	91	96

SpO2

Range: 0 ~ 100%.

The margin of error for SpO₂ between 70% and 100% is \pm 3%. No strict accuracy requirements for SpO₂ below 70%.

Pulse Rate

Range: 40 ~ 240 BPM Margin of Error: ±3%

Wavelengths

Red: 663 nanometers Infrared: 890 nanometers

Maximal Optical Output Power

Less than 1.5 mw maximum average.

Tube

Length: 6 ft. (1.83 m)

The Form and the Dimensions of the Patient Connection Port The 22 mm conical air outlet complies with ISO 5356-1.

6. Available Therapy

The device delivers the following therapy:

CPAP – Delivers Continuous Positive Airway Pressure; CPAP maintains a constant level of pressure throughout the breathing cycle. If your health care professional has prescribed ramp for you, you can press **the Ramp Button** \checkmark to reduce the pressure and then gradually increase the pressure to the therapeutic pressure setting so that you can fall asleep more comfortably.

7. Glossary

Apnea

A condition marked by the cessation of spontaneous breathing.

Auto Off

When this feature is enabled, the device automatically discontinues therapy whenever the mask is removed. This feature is only available for E-20C-H-O.

Auto On

With this feature, the device automatically initiates therapy when you breathe into the mask. This feature is always enabled. This feature is only available for E-20C-H-O.

CPAP

Continuous Positive Airway Pressure.

iCode

A feature that is intended to give access to compliance and therapy management information. The "iCode" consists of six separate codes displayed in the Patient Menu. iCode QR displays sequences of characters, and iCode QR + displays two-dimensional codes.

LPM

Liters Per Minute.

0SA

Obstructive Sleep Apnea.

Patient Menu

The display mode in which you can change patient-adjustable device settings, such as the starting pressure for the Ramp feature.

Ramp

A feature that may increase patient comfort when therapy is started. It can reduce pressure and then gradually increase the pressure to the prescription setting so the patient can fall asleep more comfortably.

Reslex

A therapy feature that is enabled by your home care provider to provide pressure relief during exhalation.

Standby State

The state of the device when power is applied but the airflow is turned off.

min

Means the time unit "minute".

h

Means the time unit "hour".

yy mm dd / mm dd yy / dd mm yy

Means the date.

8. Model

	Product Description				
Model	Product Contents	Optional Accessory 1	Optional Accessory 2	Work Mode	Maximum Work Pressure (hPa)
E-20C-H-O	Main device	Heated		CPAP	20
E-20CJ-H-O	Main device	Humidifier	SpO₂ Kit	CPAP	20

9. Package Contents

After unpacking the system, make sure you have everything shown here (Different models of the product contain different components):

No.	Articles	Qty.	Notes
1	Main Device	1	
2	Heated Humidifier	1	Optional
3	Shield	1	
4	Air Filter	2	
5	Power Adapter	1	
6	Power Cord	1	
7	SpO ₂ Kit	1	Optional
8	SD Card	1	Optional
9	Carrying Case	1	
10	User Manual	1	
11	Quick Operation Manual	1	

All parts and accessories are not made with natural rubber latex.

The product's service life shall be five years if the use, maintenance, cleaning and disinfection are in strict accordance with the User Manual. If the key components are replaced, the service life could be prolonged.

IMPORTANTS!

• If any of the above parts are missing, contact your home care provider.

• Contact your home care provider for additional information on the available accessories of this device. When using optional accessories, always follow the instructions enclosed with the accessories.

WARNINGS!

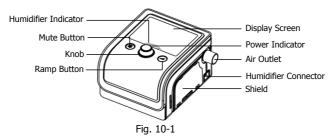
• This device should only be used with the mask and accessories manufactured or recommended by BMC or with those recommended by your prescribing physician. The use of inappropriate masks and accessories may affect the performance of the device and impair the effectiveness of therapy.

• The use of accessories other than those specified, with the exception of cables sold by the manufacturer of the equipment or system as replacement parts for internal components, may result in increased emissions or decreased immunity of the equipment or system.

 \bullet When the insulation layer of the SpO_2 probe cable is damaged, do not connect the probe to the patient.

• Please contact BMC to buy the SD card if you need it.

10. System Features



Name	Function
Humidifier Indicator	Indicate the humidity level. There are five levels in total. The number of indicator lights that light up is directly proportional to the humidity level. If none of the indicator lights light up, it means the humidifier is turned off
Mute Button	Press this button to mute the alert. However, if the problem causing the alert is not solved, the alert will sound again two minutes later
Knob	Start treatment and adjust device settings
Ramp Button	Enable the Ramp feature
Display Screen	Display menus for operation, messages, monitoring data, etc.
Power Indicator	Indicate the power supply status
Air Outlet	Deliver pressurized air; connected to the tube or the air inlet of the humidifier
Humidifier Connector	Provide power to the humidifier which is connected to the main device
Shield	Connect the humidifier to the main device after this shied is removed

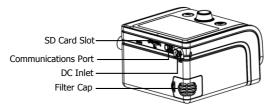


Fig. 10-2

Name	Function	
SD Card Slot	Insert the SD card into this slot	
Communications Port	Connected to external equipment (Not for connection to the phone or computer)	
DC Inlet	An inlet for the DC power supply	
Filter Cap	Place the cap on the air filter, which is used to filter dust and pollen in the air entering the device	

11. First Time Setup

11.1 Placing the Device

Place the device on a firm, flat surface.

WARNINGS!

• If the device has been dropped or mishandled, if the enclosure is broken, or if water has entered the enclosure, disconnect the power cord and discontinue use. Contact your home care provider immediately.

• If the room temperature is warmer than 95°F (35°C), the airflow produced by the device may exceed 109.4°F (43°C). The room temperature must be kept below 95°F (35°C) while the patient uses the device.

CAUTIONS!

• If the device has been exposed to either very hot or very cold temperatures, allow it to adjust to room temperature (approximately 2 hours) before beginning setup.

• Make sure the device is away from any heating or cooling equipment (e.g., forced air vents, radiators, air conditioners).

• The device is not suitable for use in high humidity environments. Make sure that no water enters the device.

• Make sure that bedding, curtains, or other items are not blocking the filter or vents of the device.

• To avoid explosion, this device must not be used in the presence of flammable gases (e.g. anesthetics).

• Tobacco smoke may cause tar build-up within the device, leading to the malfunctioning of the device.

• Air must flow freely around the device for it to work properly.

11.2 Installing the Air Filter and Filter Cap

(1) Attach the air filter to the filter cap, as shown in Fig. 11-1.

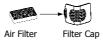


Fig. 11-1

(2) Install the filter cap containing the air filter to the main device, as shown in Fig. 11-2.



Fig. 11-2

CAUTION!

• The air filter must be in place when the device is operating.

11.3 Connecting to Power

- (1) Insert the plug of the power adapter into the DC Inlet on the back of the device;
- (2) Connect the power cord to the power adapter;
- (3) Plug the other end of the power cord into the power outlet.

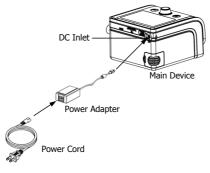


Fig. 11-3

WARNINGS!

- The device is powered on for use when the power cord and power adapter is connected. The Knob \circledast turns the blower On / Off.

• Use of the device at an AC voltage beyond the stated range (see Section 5 "AC Power Consumption") may damage the device or cause device failure.

CAUTION!

• Inspect the power cord often for any signs of damage. Replace a damaged cord immediately.

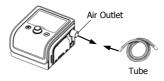
IMPORTANTS!

• After interruption and restoration of the power supply, the device will restore its pre-interruption working status automatically.

• To remove AC power, disconnect the power cord from the power outlet.

11.4 Assembling the Tube and Mask

(1) Connect one end of the tube to the air outlet of the main device, as shown in Fig. 11-4. If the main device is used with a humidifier, connect one end of the tube to the air outlet of the humidifier, as shown in Fig. 11-5.





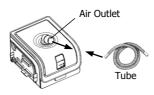


Fig. 11-5

(2) Connect the other end of the tube to the mask according to the user manual for the mask. Wear the mask.

WARNINGS!

• If multiple persons are going to use the device (e.g., rental devices), a low-resistance, main flow bacteria filter should be installed in-line between the device and tube. <u>Pressures must</u> be verified by your home care provider when alternate or optional accessories are in place.

• If you are using a mask with a built-in exhalation port, connect the mask's connector to the tube.

• If you are using a mask with a separate exhalation port, connect the tube to the exhalation port. Position the exhalation port so that the vented air is blowing away from your face. Connect the mask's connector to the exhalation port.

• If you are using a full-face mask (a mask covering both your mouth and nose), the mask must be equipped with a safety (entrainment) valve.

 \bullet In order to minimize the risk of CO_2 rebreathing, the patient should observe the following instructions:

- Use the accompanying tube and mask provided by BMC.

- Do not wear the mask for more than a few minutes while the device is not operating.

- Use only masks with vent holes. Do not block or try to seal the vent holes in the exhalation port.

11.5 Using Oxygen with the Device

Oxygen may be added at the mask connection. Please observe the instructions listed below when using oxygen with the device.

WARNINGS!

• Connect the oxygen tube to the oxygen inlet of the mask.

• The oxygen supply must comply with the local regulations for medical oxygen.

• Turn on the device before turning on the oxygen. Turn off the oxygen before turning off the device. <u>Explanation of Warning</u>: When the device is turned off, but the oxygen flow still exists, oxygen may accumulate within the device's enclosure and pose a fire hazard. Turning off the oxygen before turning off the device will prevent oxygen accumulation in the device and reduce the risk of fire. This warning applies to most CPAP devices.

• Oxygen supports combustion. Keep the device and the oxygen container away from heat, open flames, any oily substances, or other sources of ignition. DO NOT smoke in the area near E-20C or the oxygen container.

• Sources of oxygen should be located more than 1 m from the device.

• When using oxygen with this system, a Pressure Valve must be placed in-line with the patient circuit between the device and the oxygen source. The pressure valve helps prevent the backflow of oxygen from the patient circuit into the device when the unit is off. Failure to use the pressure valve could result in a fire hazard.

• Do not connect the device to an unregulated or high pressure oxygen source. The pressure of oxygen source does not exceed the work pressure of the device.

11.6 Inserting the SD Card (Only for the device that equipped with SD card)

Insert the SD card into the SD Card Slot, as shown in Fig. 11-6.



Fig. 11-6

If the SD card is inserted correctly, a symbol indicating correct insertion will appear in the Main Interface on the screen of the device, as shown in Fig. 11-7.



Fig. 11-7

If the SD card is inserted incorrectly or not inserted, a symbol indicating incorrect insertion or no SD card present will appear in the Main Interface on the screen of the device, as shown in Fig. 11-8.



CAUTION!

• To avoid data loss or any damage to the SD card, the SD card can only be removed after the main device stops delivering air.

11.7 Using the SpO₂ Kit

The SpO₂ Kit consists of a **SpO₂ Probe**, **Adapter**, and **Connector**, as shown in Fig. 11-9.

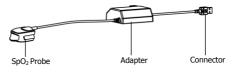


Fig. 11-9

11.7.1 Connecting the SpO₂ Kit to the Main Device

(1) Pull the **Adhesive-backed Paper** off the **Base Plate** as indicated by the arrow icon in the top left of Fig. 11-10.

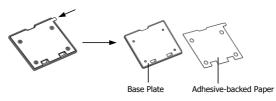


Fig. 11-10

(2) Point the four holes of the **Base Plate** towards the four reference points on the back of the main device to properly stick the plate to the device, as shown in Fig. 11-11.

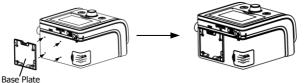


Fig. 11-11

(3) Point the two **Buckles** at the back of the SpO₂ Kit adapter towards the two buckles of the base plate, and push until the two units click into place. Insert the SpO₂ Kit connector into the **Communications Port** of the main device, as shown in Fig. 11-12.

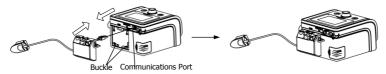


Fig. 11-12

11.7.2 Removing the SpO₂ Kit from the Main Device

First disconnect the SpO₂ Kit connector from the **Communications Port**; then press the **Hook** at the top of the SpO₂ Kit adapter, and at the same time, pull the adapter and base plate apart in opposite horizontal directions, as shown in Fig. 11-13.

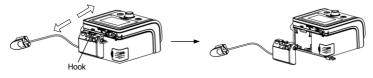


Fig. 11-13

The SpO₂ Kit is intended to be used for continuous, non-invasive functional arterial oxygen saturation (SpO₂) and pulse rate monitoring for adults weighting greater than 40 kg. The SpO₂ Kit is ready to use immediately when you connect it to the main device via the

Communications Port.

The model of the SpO $_2$ Kit is KS-CM01. The SpO $_2$ Kit is calibrated to display FUNCTIONAL OXYGEN SATURATION.

Attach its sensor to the patient's index finger or any other finger.

The sampling rate of the SpO₂ signal is about 50 Hz, and the update rate of the frame is 1 Hz. The value of SpO₂ and PR is calculated by the average of the former eight pulse waveforms. If the SpO₂ Kit is in an abnormal state, the value of SpO₂ will be blank.

The screen of the main device then displays the Main Interface shown in Fig. 11-14. The patient's blood oxygen saturation and pulse rate can be clearly seen during the course of therapy.



Fig. 11-14

WARNINGS!

• Change the measurement point regularly according to the patient's conditions after prolonged use. Change the measurement point, check the patient's skin integrity and circulatory conditions, and make the right adjustments at least every three hours.

• Excessive ambient light, excessive motion, use of intravascular dyes, poorly perfused finger, extreme finger sizes or improper placement may degrade the SpO_2 Kit's performance or affect the accuracy of the measurement.

• Nail polish or false nails should be removed before the finger sensor is used, or it may cause erroneous measurements results.

• Overly low blood pressure, overly low systolic blood pressure, severe anemia, or hypothermia may cause erroneous measurements results.

• The SpO₂ Kit is designed for use with this device only.

 \bullet Verify the compatibility of the device and SpO_2 Kit before use, otherwise it may cause injury to the patient.

 \bullet Misapplication of a SpO_2 Kit with excessive pressure for prolonged periods can induce pressure injury.

• A FUNCTIONAL TESTER cannot be used to assess the ACCURACY of the SpO₂ Kit.

- Do not use the SpO₂ Kit during MRI scanning.
- \bullet Do not use the SpO_2 Kit if it appears damaged.
- \bullet Do not immerse the SpO_2 Kit as it causes short.

 \bullet SpO_2 Kit should only be connected or disconnected with the device unplugged or powered off.

11.8 Using the H60 Heated Humidifier

The H60 Heated Humidifier is available from your home care provider. The humidifier may reduce nasal dryness and irritation by adding moisture (and heat if applicable) to the airflow. For detailed information about the heated humidifier, please see the user manual for the heated humidifier.

11.9 Starting Treatment

Connect the device to a power outlet, press **the Knob** , and the device will start delivering air.

WARNINGS!

• Be sure to follow your physician's instructions on adjusting the settings! To order any accessories not included with this device, contact your equipment supplier.

• DO NOT connect any ancillary equipment to this device unless recommended by BMC or your physician. If you suffer from chest discomfort, shortness of breath, stomach bloating, or severe headache when using the device, contract your physician or qualified medical personnel immediately.

12. Routine Use

12.1 Connecting the Tube

Connect the power cord, power adapter, and tube properly according to the instructions in the First Time Setup (Chapter 11). Connect the mask and headgear according to the user manual for the mask.

CAUTION!

• Before each use, examine the tube for any damage or debris. If necessary, clean the tube to remove the debris. Replace any damaged tube. Make sure that the mask does not leak.

12.2 Adjusting the Tube

Lie down on your bed, and adjust the tube so it is free to move if you turn during sleep. Adjust the mask and headgear until you have a comfortable fit and until there are no airflow leaks into your eyes.

12.3 Turning on the Airflow

Press **the Knob** stoturn on the airflow. The screen will display treatment pressure and other information.

12.4 Heating the Water in the Humidifier

Pay attention to the humidifier indicator lights when using the device with a humidifier. The indicator lights indicate the On / Off state of the humidifier. It is off when all indicator lights go out.

CAUTION!

• Observe the water level of the water chamber before using the humidifier. Make sure there is sufficient water in the water chamber, and avoid heating the humidifier with an empty water chamber.

12.5 Using the Ramp Button

Every time **the Ramp Button** \checkmark is pressed, the pressure will drop to the initial pressure, and then gradually rise to the prescribed treatment pressure according to the preset ramp time, so as to make the patient fall asleep easily. The screen displays a real-time countdown of the remaining ramp time in minutes.

CAUTIONS!

- You can press **the Ramp Button** \checkmark as often as you wish during sleep.
- The ramp feature is not prescribed for all users.

12.6 Turning the Device off

Take off the mask and headgear, press and hold **the Knob** s for two seconds, and the device will stop delivering air. Disconnect the power cord from the power outlet to power off the device.

13. Navigating the Patient Menu 13.1 Steps to Navigating the Patient Menu 13.1.1 Accessing the Main Interface

Connect the power cord and power adapter properly. The screen displays the Main Interface shown in Fig. 13-1.



13.1.2 Bringing up the Initial Setup Interface

From the Main Interface shown in Fig. 13-1, press and hold **the Ramp Button** for three seconds. The screen displays the Initial Setup Interface of the Patient Menu, as shown in Fig. 13-2.

		🖬 13/08/23 21:45		
	Humidifier	2		
1AL	Ramp Time	10 min		
22-40	Delay	Off		
	Date	2013-8-23		
	Time	21:45		
	 Fig. 13-2			

The first icon **[7]** on the left side of the screen indicates the Main Interface, the second icon **[3]** indicates the Initial Setup Interface, and the third icon **[1]** indicates the iCode Interface. As you turn **the Knob (**, the cursor switches among the three icons, and the interface displayed on the screen changes accordingly.

13.1.3 Accessing the Setup Interface

When the cursor is on the icon \square , the screen displays the Setup Interface. Access the Setup Interface by pressing **the Knob** \blacksquare . The first option on the Setup Interface is then displayed in blue, as shown in Fig. 13-3.

_		🚽 13/08/23 21:45
	Humidifier	2
500	Ramp Time	10 min
200	Delay	Off
	Date	2013-8-23
	Time	21:45
	(•
	Eig 1	2 2

Fig. 13-3

13.1.4 Selecting Options

As you turn **the Knob** Clockwise, the cursor moves downwards from one option to another. As you turn it counterclockwise, the cursor moves upwards. When the cursor is on a certain option, press **the Knob** and the option is then displayed in yellow, meaning that the option can now be adjusted, as shown by the **Humidifier** option in Fig. 13-4.

		🖬 13/08/23 21:45
	Humidifier	2
52	Ramp Time	10 min
20-60	Delay	Off
1	Date	2013-8-23
	Time	21:45
		I
	Fig. 1	13-4

13.1.5 Adjusting Options

Adjust the option by turning **the Knob** . As shown in Fig. 13-4, the **Humidifier** option is selected. As you turn **the Knob** clockwise, the numbering increases, indicating a higher humidity level. As you turn **the Knob** counterclockwise, the numbering decreases, indicating a lower humidity level. At this moment, the **Humidifier** option is still displayed in yellow, as shown in Fig. 13-5.

		🖬 13/08/23 21:45
	Humidifier	3
m	Ramp Time	10 min
200	Delay	Off
i	Date	2013-8-23
	Time	21:45
		•

Fig. 13-5

13.1.6 Confirming Adjustments

Confirm your adjustment to an option by pressing **the Knob .** The option is then displayed in blue, as shown in Fig. 13-6.

		差 13/08/23 21:45
	Humidifier	3
5	Ramp Time	10 min
200	Delay	Off
1	Date	2013-8-23
	Time	21:45
		I

Fig. 13-6

13.1.7 Turning Pages

When the cursor is on **Time**, the last option shown in Fig. 13-6, the remaining options will appear on a new page if you continue to turn **the Knob** clockwise, as shown in Fig. 13-7.

		🖬 13/08/23 21:45	
		۲	
502	Date	2013-08-23	
200	Time	21:45	
1	Brightness	High	
	Mask Type	Nasal	
	•		
	Fia	13-7	

Fig. 13-7

Note: 🐋 are page turning symbols.

13.1.8 Exiting the Patient Menu

(1) Returning to the Initial Setup Interface

Move the cursor to the **Back** option by turning **the Knob** , as shown in Fig. 13-8.

		13/08/23 21:45
	۲	
50	iCode	>
200	Use Time	0 h
	About	>
	<back< th=""><th></th></back<>	
	<home< td=""><td></td></home<>	
	Eig 12	0



Press **the Knob** , the cursor jumps to the second icon on the left side of the screen. The screen displays the Initial Setup Interface, as shown in Fig. 13-9.

		🖬 13/08/23 21:45
	Humidifier	3
562	Ramp Time	10 min
22.48	Delay	Off
1	Date	2013-8-23
	Time	21:45
		I

Fig. 13-9

(2) Returning to the Main Interface

Move the cursor to the **Home** option by turning **the Knob** , as shown in Fig. 13-10.

			13/08/23	21:45
Â				
10	iCode			>
0.00	Use Time		0 h	
i	About			>
	<back< th=""><th></th><th></th><th></th></back<>			
	<home< th=""><th></th><th></th><th></th></home<>			
	Eig 1	2 1	0	

Fig. 13-10

Press **the Knob** sto exit the Patient Menu. The screen will display the Main Interface shown in Fig. 13-1.

13.2 Options of the Patient Menu and Corresponding Descriptions

Option	Range	Description	
Humidifier	Off, 1 ~ 5	There are five humidity levels available. As the numbering increases, the humidity rises accordingly. "Off" means the humidifier is turned off. The default setting is "2"	
Reslex	Off, 1 ~ 3	This feature enables the device to automatically reduce the treatment pressure when the patient exhales, so as to make the user more comfortable. The higher the numbering is, the more pressure the device reduces. "Off" means this feature is disabled. The default setting is " Off "	
Ramp Time	0 ~ Max Ramp	In order to increase comfort and help the patient fall asleep easily, the pressure can increase gradually, when the Ramp feature is enabled. The ramp time during which the initial pressure rises to the prescribed treatment pressure can be adjusted. As you turn the Knob to the nearest point, the numbering increases or decreases by five minutes. The default setting is "10 minutes ". The screen displays a real-time countdown of the remaining ramp time in minutes	
Delay	On / Off	When the humidifier is on, this feature allows the airflow to continue for about 15 minutes at a low pressure (about 2 hPa) after you press the Knob to discontinue treatment. This will blow off the vapor left in the humidifier to avoid any damage to the device. When this feature is set to "Off," which means it is disabled, the airflow stops instantly after you press the Knob . The default setting is " Off "	
Date	2000-01-01 — 2099-12-31	Setting date by adjusting this option	
Time	00:00 — 23:59	Setting time by adjusting this option	
Brightness	High / Low	Setting screen brightness by adjusting this option. The default setting is " High "	
Mask Type	Full Face; Nasal; Pillow; Other	There are three mask types available, namely Full Face (full-face mask), Nasal (nasal mask), and Pillow (nasal pillow mask). The default mask type is " Nasal ," but the patient can choose other suitable masks as well. When selecting masks other than the above three types of BMC masks, the patient can identify the masks as other	
iCode	iCode, iCode QR, iCode QR +	iCode provides access to the patient's compliance data during a recent time period. The iCode QR mode displays data in sequences of characters, and the iCode QR + mode displays data in two-dimensional codes	
Use Time	0 ~ 50000 h	Use Time displays how long has the device been used by the user. The use time can be erased	
About		Displays related information of the device (Model, SN, Version, ID). This is read-only and cannot be edited	

14. Alert

Alert Message Description		
	An audible alert will sound if the device is accidentally disconnected from power when it is delivering air. Note:	
Power Failure!!!	(1) The alert will not sound if power failure occurs when the device is in standby state.	
	(2) No alert message on the screen during a power failure	
Device Fault!!!	An audible alert will sound if no airflow comes out of the machine; the screen will display " Device Fault!!! "	
Leak!! When the airflow is on, an audible alert will sound if the air leak exceeds 150 L/min; the screen will display "Leak!!"		
Low Input Voltage!!	If you use a battery rather than an external power adapter to power the device, an audible alert will sound when the battery is low; the screen will display " Low Input Voltage!! "	
Humidifier Failure!! When humidifier is applied, an audible alert will sound wh humidifier fails to work; the screen will display "Hum Failure!!"		
Please Change Filter! When the Filter Alert feature is enabled, an audible alert will so the preset replacement time reaches but without replacing to filter; the screen will display "Please Change Filter!"		
SD Card Full! The screen will display "SD Card Full!" if the SD card has reac maximum capacity		
Reinsert SD card!	The screen will display " Reinsert SD card! " if the SD card fails to work	

15. Cleaning and Disinfection

WARNINGS!

• Regular cleaning of the device and its accessories is very important for the prevention of respiratory infections.

• To avoid electric shock, always unplug the device before cleaning.

• Use washing liquid that is nontoxic to humans and does not cause allergies in humans.

• Follow the manufacturer's instructions on cleaning the mask and tube and on determining the frequency of cleaning.

• Before cleaning, check whether the device has been disconnected from the power supply, whether the power cord has been unplugged, and whether the water chamber of the humidifier has cooled down. Make sure the Humidifier plate has cooled down to room temperature, so you do not get burned.

• Do not open or modify the device. There are no user serviceable parts inside. Repairs and servicing should only be performed by an authorized service agent.

CAUTIONS!

• Overheating of the materials could lead to early fatigue of these materials.

• Do not use solutions containing chlorinated lime, chlorine, or aromatic to clean the device and its accessories. Liquid soap containing the humidifying agent or antimicrobials should not be used either. These solutions may harden cleaned materials or reduce their life.

• Do not clean or dry the device and its accessories when the temperature is higher than 80° C (176°F). High temperatures could reduce product life.

• Do not immerse the device in any fluids.

15.1 Cleaning the Mask and Headgear

For details, refer to the cleaning instructions in the user manual for the mask.

15.2 Cleaning the SpO₂ Kit

Wipe the surface of the SpO₂ Kit with a clean, soft, and slightly damp cloth.

15.3 Cleaning the Water Chamber of the Humidifier

For details, refer to the cleaning instructions in the user manual for the humidifier.

15.4 Cleaning the Enclosure

Wipe the surface of the device with a soft, slightly damp cloth.

CAUTION!

• The device can only be used after the enclosure is dry, so that no moisture enters the device.

15.5 Cleaning the Tube

(1) Remove the tube from the device and mask before cleaning.

(2) Clean the tube in warm water which contains washing liquid, and then rinse it in clean

water thoroughly.

(3) After cleaning, air-dry the tube in a cool, well-ventilated area, and avoid direct sunlight. It takes approximately 30 minutes to completely air-dry the tube. Check whether the tube is completely dry before reuse.

15.6 Replacing the Air Filter

(1) Open the air filter cap to remove the air filter.

(2) Put the new air filter in the filter area, and then place the filter cap back properly.

CAUTIONS!

To avoid material damage, do not place the spare air filter in direct sunlight, humid environments, or temperatures below the freezing point. The air filter should be replaced every 6 months (It may be replaced more frequently based on actual sanitary conditions).
Operating the device with a dirty air filter may stop it from working properly and may cause damage to the device.

15.7 Disinfection

Generally speaking, if you have strictly followed the above cleaning instructions, you do not have to disinfect the device and / or humidifier. If the device is contaminated or used in clinical trials, you may purchase disinfectants from a pharmacist to disinfect the water chamber.

Disinfection of the Humidifier Water Chamber:

See the Disinfection section of the humidifier user manual for more information on the disinfection of the water chamber.

Disinfection of the SpO₂ Probe:

Before disinfection, clean the SpO₂ probe according to Section 15.2 "Cleaning the SpO₂ Kit". Before each use, disinfect the probe by wiping it with soft gauze which was soaked in 75% medical alcohol or 70% isopropyl alcohol solution. After disinfection, wipe the surface of the probe with a clean, soft, and slightly damp cloth, and leave it to air dry.

CAUTIONS!

• Disinfectants tend to damage materials and reduce the life of components. Try to select the appropriate disinfectant, and follow the disinfectant manufacturer's instructions and recommendations.

• After disinfection, check the disinfected component for any signs of damage. Replace any damaged component immediately.

WARNINGS!

• After disinfection, rinse any disinfected component in clean water thoroughly, especially components in close contact with the patient such as the mask, headgear and tube, so as to prevent disinfectant residuals from damaging the skin or respiratory tract or causing allergies.

- The device shall not be serviced or maintained while in use with a patient.
- Sterilization of this device and its components other than recommended is not permitted.

16. Traveling with the Device

CAUTIONS!

• Empty the water chamber of the humidifier before packing the device for your trip; in order to prevent any remaining water from entering the device.

Using the device at an incorrect elevation setting could result in airflow pressures higher than the prescribed setting. Always verify the elevation setting when traveling or relocating.
If the device is used when the atmospheric pressure is out of the stated range (See Section 5), the accuracy of the leakage alert will be affected.

(1) Use the BMC carrying case to carry the device and accessories along with you. Do not put them in your checked baggage.

(2) This device operates on power supplies of 100 - 240 V and 50 / 60 Hz, and is suitable for use in any country in the world. No special adjustment is necessary, but you will need to find out the types of the power sockets in your destination. Bring, if necessary, a power socket adaptor which can be bought in electronics stores.

(3) Remember to bring a spare air filter and the emergency documents (filled and signed by your physician) about this device. If you plan to travel by air, remember to bring the multi-language emergency documents about respiratory therapy, in case that the border and customs officers in your destination country inspect the device. With the emergency documents, you can prove to them that it is a medical device.

(4) Security Stations: For convenience at security stations, there is a note on the bottom of the device stating that it is medical equipment. It may be helpful to bring this manual along with you to help security personnel understand the device.

17. Transferring the Device to Another Patient

If the device is transferred to another patient, components in close contact with the previous owner, including the mask, headgear, tube, and air filter, should be cleaned and disinfected to prevent cross-infection.

18. Reordering

Contact your home care provider to order accessories or replacement filters. The device does not require routine servicing.

WARNINGS!

• If you notice any unexplained changes in the performance of the device, if it is making unusual or harsh sounds, if it has been dropped or mishandled, if the enclosure is broken, or if water has entered the enclosure, discontinue use. Contact your home care provider.

• If the device malfunctions, contact your home care provider immediately. Never attempt to open the enclosure of the device. Repairs and adjustments must be performed by BMC -authorized service personnel only. Unauthorized service could cause injury, invalidate the

warranty, or result in costly damage.

• If necessary, contact your local authorized dealer or BMC Medical Co., Ltd. for technical support and documents.

19. Technical Support

Please contact BMC directly if you need the circuit diagram of the device and the list of components for certain purposes such as maintenance or connection to other equipment. BMC will provide the circuit diagram and / or other technical documents in whole or in part according to your needs.

20. Disposal

When the device reaches the end of its service life, dispose of the device and packaging in accordance with local laws and regulations.

21. Troubleshooting

The table below lists common problems you may have with the device and possible solutions to those problems. If none of the corrective actions solve the problem, contact your home care provider.

21.1 Common Problems in Patients and Corresponding Solutions

Problem	Possible Cause	Solution(s)
Dry, cold, runny, and blocked nose; having a cold	The nose reacts to the airflow and cold. Due to fast airflow, the air becomes cold, leading to nasal mucosa irritation and subsequent dryness and swelling	Increase the humidity setting of the humidifier. Contact your physician, and continue treatment unless the physician suggests the opposite
Dry mouth and throat	Probably because the patient sleeps with his or her mouth open, and the pressurized air goes out via the mouth, leading to nasal and throat dryness	Use a chin strap to prevent the mouth from opening during sleep, or use a full-face mask. Contact your physician for details
Eye irritation	The mask size or model may not be correct, or the mask is not positioned correctly, thereby leading to air leakage	Narrow the distance between the forehead support of the mask and the forehead. Note that adjusting the mask too tight may leave markings on the patient's face. Add additional filling to the mask so it does not leak. Contact your equipment supplier for an appropriate mask. Add additional filling to the mask if necessary
	Mask cushion (the soft part of the mask) hardens	Replace the mask or mask cushion
	The mask is too tight	Loosen the headgear
	The distance between the forehead support of the mask and the forehead is not correct	Try a different distance. The angle and size of the forehead support differ according to the type of masks
Facial reddening	Wrong mask size	Contract your equipment supplier for a correct-size mask
	The patient is allergic to the materials of the mask	Contact your physician and equipment supplier. Use a mask which is not made with natural rubber latex. Place a lining between the skin and mask

Water in mask	When the humidifier is used, the humidified air tends to condense in the cold tube and mask if the room temperature is low	Turn the humidity setting down, or raise the room temperature. Place the tube under the quilt, or use the tube cover. Hang the tube loosely, and the lowest part of the tube should be lower than the patient's head
Nasal, sinus, or ear pain	Sinus or middle ear inflammation	Contact your physician immediately
Discomfort due to inability to adapt to the treatment pressure	The patient will feel uncomfortable when the treatment pressure is higher than 13 hPa. However, the treatment pressure is determined according to the patient's conditions, and cannot treat sleep apnea if the treatment pressure is set too low	It takes a maximum of four weeks to adapt to pressurized air. Relax and breathe through the nose. If the problem still exists, contact your physician
Obstructive sleep apnea symptoms recur	Probably because the patient sleeps with his or her mouth open, and the pressurized air goes out via the mouth, leading to blockage in the respiratory tract	Use a chin strap to prevent the mouth from opening during sleep, or use a full-face mask. Contact your physician for details
The device is too The tube is not connected properly		Reconnect the tube properly
		Replace the air filter (see 15.6 Replacing the Air Filter), and clean the air inlet
Air delivered from the device is abnormally hot	The air inlet of the device may be partially blocked, leading to insufficient airflow into the device	Place the device in an area where air flows freely, and make sure the device is at least 20 centimeters away from the wall, curtain, or other things

Problem	Possible Cause	Solution(s)	
	The Auto On / Off feature is enabled	Take a few deep breaths with the mask on, and the device will start automatically	
The device does	Power is not connected properly	Ensure that the power cord, power adapter, and the device are connected properly	
not work when it is turned on	There is no voltage.	Check whether a power outage occurs by turning on a light or other means. If you are sure the fuse in the device is broken, contact your equipment supplier for repair	
	Cannot find any cause	Contact your equipment supplier	
The device is working, but the	The tube is not connected properly	Reconnect the tube properly	
pressure inside the mask differs from the set	There may be holes in the mask or pressure sensing tube	Contact your equipment supplier	
treatment	It is a faulty device	Contact your equipment supplier	
	The air inlet of the device may be blocked	Replace the air filter (see 15.6 Replacing the Air Filter), and clean the air inlet. Make sure the air inlet is unblocked	
The device produces very low	The treatment pressure has been changed accidentally	Contact your physician	
pressures	When the Ramp feature is enabled, it takes some time for the initial pressure to rise to the treatment pressure. This is normal	If necessary, disable the Ramp feature, or set the ramp time shorter	
After the device is turned on, the screen displays intermittently, or displays nothing at all	The operating system of the device needs to be readjusted or restarted	Unplug the power cord of the device, and re-plug it 20 seconds later	
The device is in standby, and will not start	The operating system of the device needs to be readjusted or restarted	Unplug the power cord of the device, and re-plug it 20 seconds later	

21.2 Common Problems in the Device and Corresponding Solutions

22. EMC Requirements

Guidance and manufacturer's declaration - electromagnetic emissions			
The device is intended for use in the electromagnetic environment specified below. The user of the device should ensure that it is used in such an environment.			
Emissions Test Compliance		Electromagnetic Environment - Guidance	
RF emissions CISPR 11	Group 1	The device 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	The device is suitable for use in all	
Harmonic emissions IEC 61000-3-2	Class A	establishments including domestic establishments and those directly connected to the public low-voltage	
Voltage fluctuations / flicker emissions IEC 61000-3-3	Complies	power supply network that supplies buildings used for domestic purposes	

Guidance and manufacturer's declaration - electromagnetic immunity					
The device is intended for use in the electromagnetic environment specified below. The user of the device should make sure that it is used in such an environment.					
Immunity Test IEC 60601 Compliance Test Level Level		Compliance Level	Electromagnetic Environment - Guidance		
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±15 kV air	±8 kV contact ±15 kV air	Floor should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%		
Electrical fast transient / burst IEC 61000-4-4	±2 kV for power supply lines	±2 kV for power supply lines	Mains power quality should be that of a typical commercial or hospital environment		
Surge IEC 61000-4-5	±1 kV line(s) to line(s)	±1 kV line(s) to line(s)	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	0% <i>Uτ</i> ; 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0% <i>Uτ</i> ; 1 cycle 70% <i>Uτ</i> ; 25 / 30 cycle At 0° 0% <i>Uτ</i> ; 250 / 300 cycle	0% <i>Uτ</i> ; 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0% <i>Uτ</i> ; 1 cycle 70% <i>Uτ</i> ; 25 / 30 cycle At 0° 0% <i>Uτ</i> ; 250 / 300 cycle	Mains power quality should be that of a typical commercial or hospital environment. If the user of the device requires continued operation during power mains interruptions, it is recommended that the device be powered from an uninterruptible power supply or a battery		
Power frequency (50 / 60 Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment		
Note: U_T is the AC	Note: U_7 is the AC mains voltage prior to application of the test level.				

Guidance and	manufacturer'	s declaration - e	electromagnetic immunity	
The device is intended for use in the electromagnetic environment specified below. The user of the device should make sure 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 V 0.15 MHz ~ 80 MHz 6 V in ISM and amateur radio bands between 0.15 MHz and 80 MHz 10 V/m 80 MHz to 2.7 GHz	3 V 0.15 MHz ~ 80 MHz ~ 6 V in ISM and amateur radio bands between 0.15 MHz and 80 MHz 10 V/m 80 MHz to 2.7 GHz	Portable and mobile RF communications equipment should be used no closer to any part of the device, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance $d = 1.17\sqrt{p}$ $d = 0.35\sqrt{p}$ 80 MHz to 800 MHz $d = 0.70\sqrt{p}$ 800 MHz to 2.5 GHz Where <i>P</i> is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and <i>d</i> is the recommended separation distance in meters (m). Field strengths from fixed RF transmitter, as determined by an electromagnetic site survey, ^a should be less than the compliance level in each frequency range. ^b Interference may occur in the vicinity of equipment marked with the following symbol:	

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

^a Field strengths from fixed transmitters, such as base stations for radio (cellular / cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the device is used exceeds the applicable RF compliance level above, the device should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the device.

 $^{\rm b}$ Over the frequency range 150 kHz to 80 MHz, the field strengths should be less than 10 V/m.

Recommended separation distances between portable and mobile RF communications equipment and the device

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

150 kHz \sim 80 MHz $d = 1.17\sqrt{p}$	80 MHz \sim 800 MHz $d = 0.35\sqrt{p}$	800 MHz ~ 2.5 GHz $d = 0.70\sqrt{p}$
0.12	0.04	0.07
0.37	0.12	0.23
1.17	0.35	0.70
3.70	1.11	2.22
11.7	3.50	7.00
	$d = 1.17\sqrt{p}$ 0.12 0.37 1.17 3.70	$d = 1.17\sqrt{p}$ $d = 0.35\sqrt{p}$ 0.12 0.04 0.37 0.12 1.17 0.35 3.70 1.11

Note 1: At 80 MHz and 800 MHz, the higher frequency range applied.

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

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.

disturbances electromagnet	are controlle tic interferer	ed. The cust nee by main t and the dev unications equ Distance 0.3 0.3 0.3	omer or the taining a m ice as recomm	user of the inimum dista	nent in which radiated RF device can help prevent nce between RF wireless according to the maximum Electromagnetic Environment - Guidance RF wireless communications equipment should be used no closer to any part of the device, including cables, than the recommended
MHz 385 450 710 745 780 810 870 930 1720	Power W 1.8 2 0.2	0.3 0.3 0.3	Z7 28	Level 27 28	Environment - Guidance RF wireless communications equipment should be used no closer to any part of the device, including cables,
450 710 745 780 810 870 930 1720	2 0.2	0.3	28	28	equipment should be used no closer to any part of the device, including cables,
710 745 780 810 870 930 1720	0.2	0.3	-		no closer to any part of the device, including cables,
745 780 810 870 930 1720			9	9	device, including cables,
810 870 930 1720	2				separation distance
1720		0.3	28	28	calculated from the equation applicable to the frequency of the transmitter.
-					Recommended
1015	2	0.3	28	28	separation distance
1970	-	015	20	20	$E = \frac{6}{d}\sqrt{P}$
2450	2	0.3	28	28	$L = \frac{1}{d} \sqrt{r}$
5240	_				Where P is the maximum
5500	0.2	0.3	9	9	output power rating of the transmitter in watts (W) according to the transmitter manufacturer and <i>d</i> is the recommended separation distance in meters (m). Field strengths from fixed RF transmitter, 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:

WARNINGS!

• This device should not be used in the vicinity or on the top of other electronic equipment such as cell phone, transceiver or radio control products. If you have to do so, the device should be observed to verify normal operation.

• The use of accessories and power cord other than those specified, with the exception of cables sold by the manufacturer of the equipment or system as replacement parts for internal components, may result in increased emissions or decreased immunity of the equipment or system.

23. Limited Warranty

BMC Medical Co., Ltd. warrants that the device shall be free from defects of workmanship and materials and will perform in accordance with the product specifications for a period of one (1) year for main device and three (3) months for all accessories from the date of sale by BMC Medical Co., Ltd. to the dealer. If the product fails to perform in accordance with the product specifications, BMC Medical Co., Ltd. will repair or replace, at its option, the defective material or part. BMC Medical Co., Ltd. will pay customary freight charges from BMC Medical Co., Ltd. to the dealer location only. This warranty does not cover damage caused by accident, misuse, abuse, alteration and other defects not related to material or workmanship.

BMC MEDICAL CO., LTD. DISCLAIMS ALL LIABILITY FOR ECONOMIC LOSS, LOSS OF PROFITS, OVERHEAD OR CONSEQUENTIAL DAMAGES WHICH MAY BE CLAIMED TO ARISE FROM ANY SALE OR USE OF THIS PRODUCT. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

To exercise the rights under this warranty, contact the local authorized dealers or:

MANUFACTURER:

BMC Medical Co., Ltd.

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