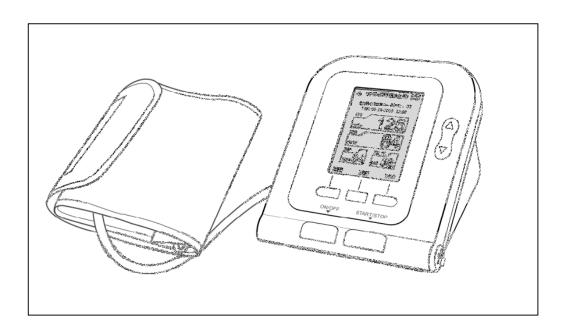
Contec CMS-08A

Blood Pressure Monitor

Electronic Sphygmomanometer



- To assure the correct use of the product safety measures, please carefully read user manual before using.
- After reading, please validly keeping to refer and consult at any moment.

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Chapter1 Safety Precautions:

- Before use, carefully read "Safety Precautions" for a correct use.
- To prevent users suffered hurt or dandification due to improper use, see "Safety Precautions", and use this product properly.

For safety reasons, be sure to comply with safety precautions.

⚠ Note ⚠

If not to use correctly, it exists that a potentially hazardous situation which may result in injury to the user or patient or damage to the equipment or other property.

⚠ Note **⚠**

Self-diagnosis and treatment using measured results may be dangerous. Follow the instructions of your physician.

Contact your physician for specific information about your blood pressure.

Please hand measurement results to the doctor who know your health to accept diagnosis. For severe blood circulation disorder or arrhythmia patients, please use the device under the guidance of a doctor.

Otherwise it may lead to acute hemorrhage, or measurement error as a result of squeezed arm.

This device is intended for using in measuring blood pressure and pulse rate.

Do not use for any other purpose.

Otherwise it may cause accident or holdback.

Please use special cuff.

Otherwise it is possible that measurement result is incorrect.

Do not disassemble or attempt to repair the unit or components without permission.

Otherwise it cannot measure correctly.

Operation for AC Adapter (Optional from MTS)

\triangle Note $\overline{\triangle}$

Please use optional dedicated AC adapter sold by MTS Otherwise it may cause trouble.

Optional dedicated AC adapter should be used with a separate power socket.

Otherwise it may cause electric shock or injury.

When there is breakage of the optional dedicated AC adapter plug or wire, please immediately pulled the plug from the power socket.

Otherwise it may cause electric shock or injury.

Do not plug or unplug the adapter power cord with wet hands.

Otherwise it may cause electric shock or injury

1

⚠ Note ⚠

Please use 4 "AA" size manganese or alkaline batteries, do not use batteries of other types.

Otherwise it may cause fire.

New and old batteries, different kinds batteries cannot be confusion.

Otherwise it may cause battery leakage, heat, rupture, and damage to Electronic Sphygmomanometer.

+ and - polarities of the batteries must match the polarities of the battery compartment as indicated. When the batteries power exhausts, replace with four new batteries at the same time.

Please take out the batteries when you do not use the device for a long time. Otherwise it may cause battery leakage, heat, rupture, and damage to Electronic

Sphygmomanometer.

If battery fluid should get in your eyes, immediately rinse with plenty of clean water.

Contact a physician immediately.

Otherwise it will cause blindness or other hazards.

If electrolyte of the batteries immodestly glues on the skin or the clothes, immediately rinse with plenty of clean water.

Otherwise it may hurt the skin.

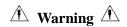
Advice A

Do not subject the device to strong shocks, such as dropping the unit on the floor.

Do not inflate before the cuff wraps around the arm

Do not inflect the cuff and the air tube forcibly

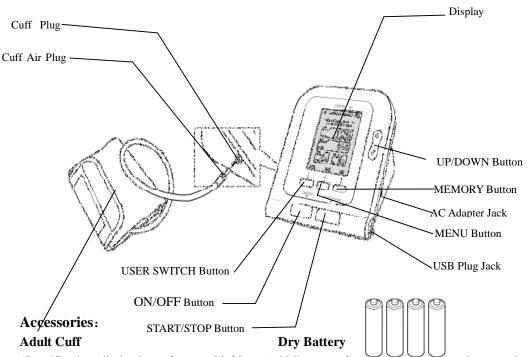
This device is intended for using in measuring blood pressure and pulse rate in the adult, pediatric and neonatal population.



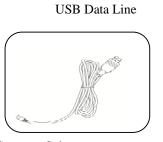
Please use the device on the adult object who can read the user manual and the error message shown on the screen. Read the user manual before use the device in order to take actions according to the manual when something wrong with the device. For pediatric and neonatal population, measurement should be only performed by qualified personnel. And please make sure to select the right user mode and cuff before use.

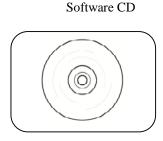
Chapter2 Main Unit

The product is in the package. Open the package and confirm whether the product is whole.



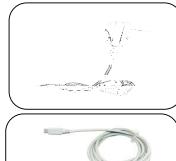
(Specification: limb circumference 22-32cm (middle part of upper arm), please choose suited cuff when measuring pediatric or other).





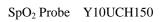








InputAC 100-240V 50-60Hz AC 500mA Output DC 6.0V 1.0A

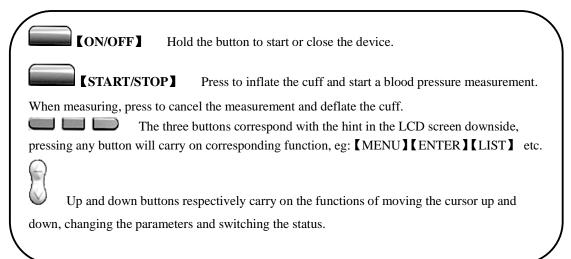


SpO₂ Measurement Range $35\%\sim100\%$ Measurement Accuracy $70\%\sim100\%$ $\pm2\%$ Pulse Measurement Range $30\sim250$ bpm

Medical Test Supply

Chapter3 Button Functions

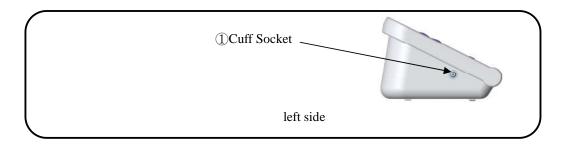
All the operations to the Electronic Sphygmomanometer are through the buttons. The names of the buttons are above them. They are:

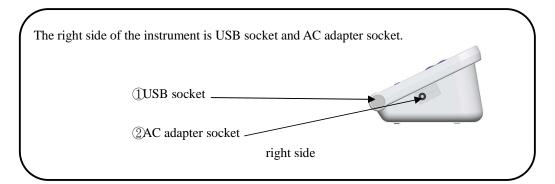


Chapter4 External Interfaces



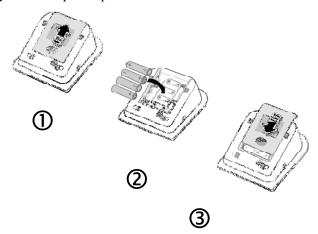
Please hold the air plug to remove the NIBP cuff.





Chapter 5 Dry Battery/AC Adapter Installation

The product can use dry battery or AC adapter as power source.



5.1 Dry Battery Installation

- ① Press the ▲ indicator on the battery cover and slide the cover off in the direction of the arrow.
- ② Install 4 "AA" size dry batteries so the +(positive) and —(negative) polarities match the polarities of the battery compartment as indicated.
- 3 Replace the battery cover.

Icon ": the batteries power will exhaust.

Replace with four new batteries (the same sort) at the same time.

Turn the unit off before replacing the batteries.

Dispose of the batteries according to applicable local regulations about environmental.

5.2 Using the Optional AC Adapter

- ① Connect device and the AC Adapter. Insert the AC Adapter Plug into the AC Adapter Jack on the right side of the device.
- 2 Plug the AC Adapter into a AC outlet.

(Hold and pull the Housing to remove the AC Adapter from the electrical outlet. Do not remove by pulling on the cord.

(2) Remove the AC Adapter plug from the unit.

Please be sure to use dedicated AC adapter.

⚠ Note ⚠

You'd better take off batteries when use the AC adapter as power source. If there is any damage to the AC adapter, you should use batteries to run the device.

When adapter and batteries are both used at the same time, the battery power will not be consumed. Switch adapter and battery as power supply when the device is off, otherwise, the device may shutdown due to power failure.

Chapter6 Setting The Date And Time

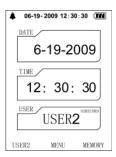
- It is necessary to set date and time after turning on the device.
- The Electronic Sphygmomanometer automatically stores measurement results with date and time.
- If dry battery power exhausts or removed, then, after the device turned on, the date resumes from the last setting value and the time from 00:00:00, set the date and time again.

The Electronic Sphygmomanometer stores the measure results of three users automatically, and up to 100 items for every user. The results can be uploaded to PC via USB and processed with the PC software. If the date and time are set correctly, the date and time when measuring will be correct in the memory, otherwise it may not be correct.

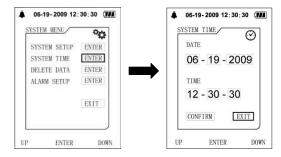


Correctly use data upload function:

1. Turn on the device to enter the main interface shown as the follow:



2.Press 【MENU】 button to enter 【SYSTEM MENU】 and select 【SYSTEM TIME】 item in system menu. The current time will be displayed:



3.Press 【UP】 or 【DOWN】 buttons to set date and time.

4.After setting, select 【CONFIRM】 item and press 【ENTER】 button to confirm the setting value. If you do not want to change the time, select 【EXIT】 item and press 【ENTER】 button to return the previous menu.



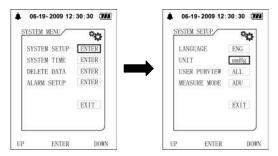
Please choose the computer which should be ensured compliance with the requirements of IEC60950, or else it may damage the device.

Chapter 7 Unit

There are two units: "mmHg" and "kPa".

The default is: "mmHg".

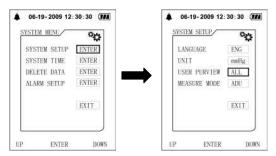
To switch "mmHg" and "kPa" units, enter the 【SYSTEM SETUP】 submenu in 【SYSTEM MENU】, and complete switching in 【UNIT】 item.



Chapter8 User Switch

The Electronic Sphygmomanometer stores the measure results of three users automatically, and up to 100 items for every user.

Press 【USER】 button in main interface to switch users. Or press 【USER PURVIEW】 item in 【SYSTEM SETUP】 menu to switch users.





When the 【USER PURVIEW】 is set to be 【ALL】, current user can be switched under main interface; when set to a certain user, it will not be able to switch.

Chapter9 Applying the Arm Cuff

The measurement can be carried out by applying the cuff on left or right arm.

Remove tight-fitting clothing from your upper arms.

Medical Test Supply

When measuring, take the thick clothes off instead of rolling up the sleeves. In order to measure accurately, pay attention to applying the cuff properly (left arm).

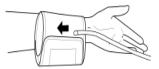
① Make sure the air plug is securely inserted in the main unit.



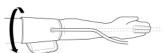
② Stretch cuff into a barrel for the arm can conformable enter into the barrel.



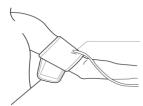
③ Arm penetrate through the cuff, the air tube of the cuff will pass the top of your palm.



④ Apply the cuff to your upper arm. The color marker is on the inside center of your arm and make the air tube aligned with your middle forger.



⑤ The bottom of the cuff should be approximately 2cm~3cm above your elbow.



6 Wrap the cuff tight, the arm and the cuff should not have gaps.

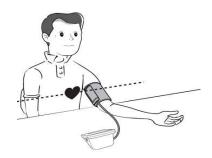


Chapter 10 BP Measurement

10.1 Accurate Measurement Way

Measurement in quiet and relaxing state.

- 1. Place your arm on a table.
- 2. The cuff is level with your heart.
- 3. The palm of the hand is up, and the body relax.



Try to measure your blood pressure at the same time each day with the same arm and the same pose for consistency.

The high and low location of cuff will cause changes in measurement results.

Do not touch Electronic Sphygmomanometer, cuff or windpipe during measurement.

Measurements should be taken in a quiet place and the body relaxed.

Remain still 4~5 minutes before measurement.

Relax the body, muscle activity will affect readings.

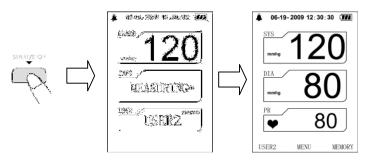
Do not talk or move during the measurement.

Wait 4~5 minutes between measurements.

Do not use a cellular phone near the device.

10.2 BP Measurement

①Press 【START/STOP】 button to take a measurement.



Start Measurement

Measurement result

During measurement, please keep correct pose and quiet state, do not move.

Stop Measurement

During measurement, if you wish to stop measuring, press 【START/STOP】 button to stop and deflate.

©Confirm Measurement Value

Measurement value can be automatically stored. ([using memory function] refer to 10 page)

*Self-diagnosis and treatment using measured results may be dangerous. Follow the instructions of your physician.



Wait 4-5 minutes between measurements

- The arm may have congestion following a measurement which may cause incorrect blood pressure readings. After the blood flow is re-established, take a measurement once again.
- When some factors affect the measurement results in measurement process, error messages hints will appear on the screen, you can obviate the malfunction and restart a measurement.

③In no physiological alarm state, press any button to carry on the corresponding button function; in audio alarm state, press any button (except 【ON/OFF】 button) to clear up the audio alarm.

④Take off the cuff, hold 【ON/OFF】 button to turn the device off.

*The device will automatically turn off after two minutes in which there is no operation to the device, even if you forget to turn the power off.

Chapter11 Memory Function

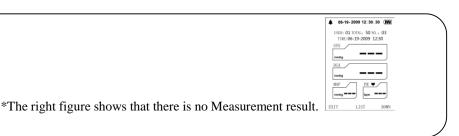
The device is designed to store and display the blood pressure, pulse rate values and the date and time when measured, which are up to 100 items. If there have been 100 items stored, when the 101 measurement have been taken, the earliest results are deleted.

11.1 Review the Memory Value

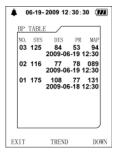
1. In the main interface (interface when boot-strap), press 【MEMORY】 button to review the most recent measurement values in large-print with the serial number from 1 to 100.



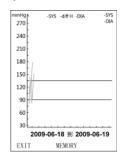
2.Press 【UP】/【DOWN】 button to circularly switch the former measurement values.



3. Press 【LIST】 button to switch to data table interface.



4. Press 【TREND】 button to display trend interface.



5. Finish displaying the measurement values

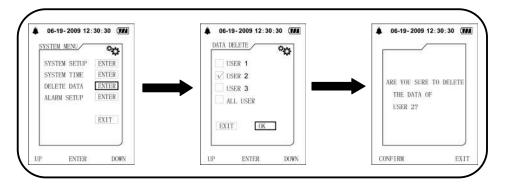
Press **[EXIT]** to return the main interface or hold **[ON/OFF]** button to turn the power off.

*The device will automatically turn off after two minutes in which there is no operation to the device, even if you forget to turn the power off.

11.2 Delete Memory Values

Users can delete all values stored in the memory of each user separately instead of deleting a special item.

1. Press 【MENU】 button to enter 【SYSTEM MENU】, select 【DELETE DATA】 item and enter its interface, in which select the user whose data will be deleted. All measurement results of selected user will be deleted after confirm



2. Finish Operation

Select 【CONFIRM】 or 【EXIT】 to return the previous menu, or hold 【ON/OFF】 button to turn the power off.

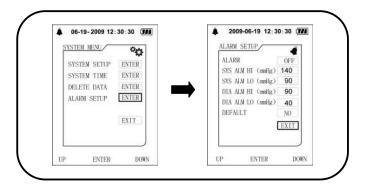
*The device will automatically turn off after two minutes in which there is no operation to the device, even if you forget to turn the power off.

Chapter 12 Alarm Function

Alarms are classified into two categories: technical alarm and physiological alarm.

Physiological Alarm

User can press [MENU] button to enter system menu, select [ALARM SETUP] item to enter its interface, and then set alarm on-off and the high and low alarm limits, when blood pressure is higher than the high limit or lower than the low limit, the physiological alarm will occur.



Press any button to cancel the alarm in physiological alarm state and this method brings no affection to the next alarm. To close alarm in 【ALARM SETUP】 will disable the alarm function until switch alarm on.

Technical Alarm

When power is about to exhaust and alarm is on , then the alarm will occur. This alarm cannot be cancelled unless being closed or the power replaced.

Chapter 13 SpO₂ Measurement Function(Optional)

Please pay attention to:



©Pulse oximeter can overestimate the SpO₂ value in the presence of Hb-CO, Met-Hb or dye dilution chemicals.

©ES (Electrosurgery) equipment wire and SpO₂ cable must not be tangled up.

②Do not put the sensor on extremities with arterial catheter or venous syringe.

©Do not perform SpO₂ measuring and NIBP measuring on the same arm at one time, because obstruction of blood flow during NIBP measuring may adversely affect the reading of SpO₂ value.

⚠ Note ⚠

- Make sure the nail covers the light window.
- The wire should be on the backside of the hand.
- ©SpO₂ value is always displayed in the fixed place.

⚠ Warning **⚠**

©Check if the sensor cable is in normal condition before monitoring. After unplugging the SpO₂ probe cable from the socket, the interface will return.

 \bigcirc Do not use the SpO₂ probe once the package or the sensor is found damaged. Instead, you shall return it to the vendor.

Prolonged and continuous monitoring may increase jeopardy of unexpected change of dermal condition such as abnormal sensitivity, erubescence, vesicle, repressive putrescence, Particularly in newborns or in a Perfusion disorders and changes or immature skin form of the patient. According to skin quality change, correct optical path alignment and attachment methods to regularly check the place of SpO₂ probe, and change the attachment position when the quality of skin decline. More frequent examinations may be required for different patients.

Chapter14 Monitoring Procedure

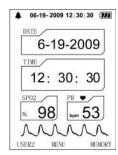
1. Attach the sensor to the appropriate site of the patient finger as shown below.



SpO₂ Placement

2.Plug the connector of the SpO_2 probe cable into the USB socket in the lower right of the device. The main interface will switch to SpO_2 interface. The update period of data is less than 5 seconds, which is changeable according to different individual pulse rate. This operation brings no affection to other functions.

Uncomfortable or painful feeling may appear if using the device ceaselessly, especially, for the microcirculation barrier patients. It is recommended that the sensor should not be applied to the same finger for over 2 hours.



Measurement Limitations

During operation, the accuracy of oximeter readings can be affected by:

- High-frequency electrical noise, including noise created by the host system, or noise from external sources, such as electrosurgical apparatus connected to the system.
- Intravascular dye injections.
- Excessive patient movement.
- External light radiation.
- Improper sensor installation or incorrect contact position of the patient.
- SpO₂ probe temperature (optimal temperature between 28°C and 40°C).
- Placement of the SpO₂ probe on an extremity that has a blood pressure cuff, arterial catheter, or intravascular line.
- Significant concentrations of dysfunctional hemoglobin, such as carboxyhemoglobin and methemoglobin.
- SpO₂ too low.
- Bad circular injection of the part being measured.
- It is required to use SpO₂ probe which is provided by our company, contact with our sale department when changes SpO₂ probe.

Chapter15 Maintenance and Cleaning



Take cuff and the power source off before cleaning the unit or the SpO₂ probe.



- Do not subject the sensor to autoclaving.
- Do not immerse the SpO₂ probe into any liquid.
- Do not use any SpO₂ probe or cable that may be damaged or deteriorated.

Cleaning:

- Use a cotton ball or a soft mull moistened with hospital-grade ethanol to wipe the surface of the SpO_2 probe, and then dry it with a cloth. This cleaning method can also be applied to the luminotron and receiving unit.
- The cable can be cleaned with 3% hydrogen dioxide, 70% isopropanol, or other active reagent. However, connector of the SpO₂ probe shall not be subjected to such solution.

Chapter16 Installation Of The Software

16.1 Host Requirements

Pentium IV 1.8G or more

Operation System: Windows XP EMS memory: 256M or more Hard Disk: 40G or more

Display: 17 inch or more

CD-ROM

USB: 2 or more

Resolution of printer: 600 DPI

16.2 Installation of Software

- 1.Place the CD-ROM in the CD-ROM compartment located on your computer.
- 2.If Auto Play for CDs is enabled, place CD in reader and follow instructions when they appear in the screen; otherwise follow install instructions below:
- 1. Open Windows Explorer.
- 2.Click on the root CD-ROM directory.
- 3. Follow the instructions in the screen.

Refer to "Software Help" for details about the operation method of the PC software.

Chapter 17 Keys And Symbols

Signal	Description			
\triangle	Warning – See User Manual			
SYS	Systolic pressure			
MAP	MAP pressure			
DIA	Diastolic pressure			
PR	Pulse rate (bpm)			
ADU	Adult			
PED	Pediatric			
NEO	Neonatal			
INFO	Information			
4	Open the alarm sound indication			
*	Close the alarm sound indication			
	Low-power			
	Full-power			
	1.no NIBP data to review			
	2.no finger inserted to SpO ₂ probe			
	3.An indicator of signal inadequacy			
	Class□ equipment			
X	WEEE (2002/96/EC)			
★	BF Applied Part			
SN	Serial number			
÷	USB or connect SpO ₂ probe			

Chapter18 Error Message

Error message will be displayed in the screen if there is something wrong when measuring. The causes and solutions are shown as follows:

Error Message	Causes	Solutions
Self-test failure System failure	Function abnormal	Please contact us
Loose cuff	Cuff is not connected correctly.	Correctly connect cuff (refer to 8 page)
Air leakage	Cuff plug fall off	Make sure the cuff plug is securely inserted in the windpipe (refer to 8 page)
Air pressure error Air pressure error		Refer to the troubleshooting
Weak signal	The pulse signal is too weak or the cuff is loose.	Correctly connect cuff (refer to 8 page)
overpressure	Cuff is blocked or squeezed	Correctly connect cuff (refer to 8 page)
Excessive movement Over range Saturated signal	The signal extent is too big owing to the arm or body moving or other reasons when measuring	Keep arm, body still, measure again
Time out	It takes too much time	

Chapter19 TROUBLESHOOTING

Abnormal Phenomenon's	Causes	Solutions
BP measurement	Cuff is not connected correctly.	Correctly connect cuff (refer to 8 page)
values too high or too low.	Talk or move arms when measuring	Keep quiet and restart a measurement
100 10 W.	The turned up clothing presses the arm	Take off the clothing which presses the arm, and restart a measurement
	Cuff leakage	Buy a new cuff
No pressure	The cuff windpipe is not correctly connected with cuff	Correctly connect
	Cuff is not inflated	Stop using the device and contact us
Cuff deflates in short time	Loose cuff	Correctly apply cuff
It cannot carry on measurement button	measurement when press the	Switch on the power once again and restart a measurement
Power off suddenly when inflating	No use for a long time, the power of batteries can be exhausted owing to the changed temperature	Replace all four batteries with new ones.
Hold the on/off	Power of batteries can be exhausted	Replace all four batteries with new ones.
button but cannot start the device	The battery polarities is reversed	Check the battery installation for proper placement of the battery polarities.
	before press the measurement nflating when measuring	Pull out the cuff to deflate. Stop using the device and contact us.
Cuff never deflation		Pull out the cuff to deflate. Stop using the device and contact us.
	No deflation or deflation error	Pull out the cuff to deflate. Stop using
Air pressure error	or inflation without stop Others	the device and contact us. Keep arm, body still, measure again.
No press value displ	ayed or the value unchanged or	Pull out the cuff to deflate. Stop using
change erratically wh	•	the device and contact us.

Other phenomenon	Switch on the power once again and restart an operation. Replace the batteries. If no, please contact us.
------------------	---

Chapter 20 Clean And Maintenance

*Please follow the instructions in the user manual. If you do not comply, our company will not assume responsibilities for the products quality.

- Frequently clean the Electronic Sphygmomanometer.
- If there is something dirty on the device, clean it with a soft dry cloth.
- If the unit is particularly dirty, you can clean it with a soft cloth dampened with water or neutral detergent after the cloth can be full twisted.





Do not submerge the device in water.

Advice A

■ Do not use any naphtha, thinner or gas to clean.



■ Do not attempt to clean or wash the cuff.



Keeping



Do not place the machine in the following areas:

■ Easy to splash water areas.



- Direct sunlight, extreme hot, humidity, dust, causticity gas areas.
- Lean or the area which can cause vibration, impact.
- Chemicals or corrosive gas storage areas.
- Remove the batteries if the unit will not be used for long time.



⚠ Warning **⚠**

It is recommended that you check if there is any damage on the Sphygmomanometer or the accessories regularly, if you find any damage, stop using it, and contact our Customer Service Department immediately.

In addition, the overall check of the Sphygmomanometer, including the NIBP calibration and safety check such as the leakage current, should be only performed by qualified personnel once every 12 months.

⚠ Warning **⚠**

The disposal of scrap instrument and its accessories and packing (including batteries, plastic bags, foams and paper boxes) should follow the local laws and regulations.

EMC declaration:

- When this device is installed or putted into service, EMC should be paid more attention, as the portable and mobile RF communications equipment with higher EM interference can affect this device.
- ⊕ The internal components and cables should not be changed, as this may decreased IMMUNITY of the device.
- The Electronic Sphygmomanometer should not be used adjacent to or stacked with other equipment.

Classification:

EMC: Group I Class B.

According to the MDD 93/42, the classification of this medical device: \Box a.

The type of protection against electroshock: Class□ equipment.

The degree of protection against electroshock: type BF applied part.

The degree of protection against ingress of water: IPX0.

According to the mode of operation: Continuous.

According to the degree of safely of application in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide: Equipment not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.

Chapter 21 NIBP Specification

Name	ame Electronic Sphyamomanometer					
	Electronic Sphygmomanometer					
Display 2.8" color LCD Display NIRP Specifications				·y		
NIBP Specifications Measurement Method Oscillometric method						
Working modes	Oscillometric method					
working modes	_			- dult		
	Dunas	adult		0~290mmHg (0~38.6kPa)		
Measurement Range	Pressure	pedia		0~235mmHg (0~31.3kPa)		
_		1		0~140mmHg (0~18.6kPa)		
	Pulse: 40~240/min					
	adult	t 160mmHg				
Inflation	pediatric		120mmHg			
	neonatal	70m				
	adult mode		SYS ALM: 40~270 mmHg			
	adun mout			ALM: 10~215 mmHg		
Alarm Range	pediatric n	node	SYS ALM: 40~200 mmHg			
	pediatric mode			ALM: 10~150 mmHg		
	neonatal mode		SYS ALM: 40~135 mmHg			
			DIA ALM: 10~100 mmHg			
	adult mode		295±5mmHg			
Overpressure protect	pediatric mode		240±5mmHg			
	neonatal mode		145±5mmHg			
Resolution	T					
Pressure	1mmHg					
Measurement Accuracy	T					
Cuff Pressure Accuracy	±3mmHg					
	The BP Value of the device is equivalence with the measurement					
Error	value of Stethoscope. The error meets all the conditions in the					
	ANSI/AAMI SP-10:2002+A1:2003 +A2:2006.					
Operating	+5°C~40 °C . 15%RH~80%RH					
Temperature/ Humidity						
Transport and Storage	-20°C~+55°C . ≤95%RH					
Temperature/Humidity						
Atmospheric pressure	80kPa~105kPa					
Battery	4 "AA" alkaline batteries, AC Adapter separately sold					
Main Unit Dimensions			n(H)			
Main Unit Weight	300gram					

Accessories	Standard Configure:		
	Adult Cuff: limb circumference 22-32cm (middle of upper arm)		
	Software CD, User Manual, USB data line, four "AA" alkaline		
	batteries		
	Separate Sale:		
	Pediatric Cuff: limb circumference 10-19cm (middle of upper		
	arm)		
	Neonatal Cuff: limb circumference 6-11cm (middle of upper		
	arm)		
	AC Adapter		
	Input: AC 100-240V 50-60Hz AC 500mA		
	Output: DC 6.0V 1.0A		

$Chapter 22 \quad SpO_2 \ Specification$

Name SpO ₂ Probe (Accessory Separate Sale)				
Model	Y10UCH150			
Measurement Range	SpO ₂ Measuring Range: 0%~100%;			
Wedstrement Range	Pulse Rate Measuring Range: 30bpm~250bpm;			
Resolution				
SpO_2	1%			
PR	1bpm			
Measurement Accuracy				
8-0	70%~100% ±2%			
SpO_2 ,	0%~69% undefined			
PR	±2bpm or ±2% (select larger)			
Measurement Performance In Weak Filling Condition				
pulse-filling ratio :	SpO ₂ error	±4%,		
0.4%	pulse rate error	±2bpm or ±2% (select larger)		
Optical Sensor				
Red light	wavelength is 660nm, 6.65mW			
Infrared	wavelength is 880nm, 6.75mW			