

## MODEL KD-7965

# Fully Automatic Wrist Cuff Blood Pressure Monitor

(ELECTRONIC SPHYGMOMANOMETER)

## OPERATION GUIDE

---

### INDEX

IMPORTANT INFORMATION .....	2
CONTENTS AND DISPLAY INDICATORS .....	2
INTENDED USE .....	3
CONTRAINDICATION.....	3
PRODUCT DESCRIPTION .....	3
SPECIFICATIONS .....	3
NOTICE .....	4
SETUP AND OPERATING PROCEDURES .....	5
1. BATTERY LOADING .....	5
2. TOUCH SCREEN SWITCH .....	6
3. CLOCK AND DATE ADJUSTMENT .....	6
4. VOICE SETTING .....	6
5. CONNECTING THE CUFF TO THE MONITOR .....	7
6. APPLYING THE CUFF .....	7
7. BODY POSTURE DURING MEASUREMENT.....	7
8. TAKING YOUR BLOOD PRESSURE READING .....	8
9. DISPLAYING STORED RESULTS .....	8
10. DELETING MEASUREMENTS FROM THE MEMORY .....	9
11. ASSESSING HIGH BLOOD PRESSURE FOR ADULTS .....	9
12. TECHNICAL ALARM DESCRIPTION .....	9
13.TROUBLESHOOTING (1).....	10
14. TROUBLESHOOTING (2).....	10
MAINTENANCE .....	11
EXPLANATION OF SYMBOLS ON UNIT .....	11
WARRANTY INFORMATION .....	12
SERVICE CENTER .....	12
ELECTROMAGNETIC COMPATIBILITY INFORMATION.....	12

## IMPORTANT INFORMATION

### NORMAL BLOOD PRESSURE FLUCTUATION

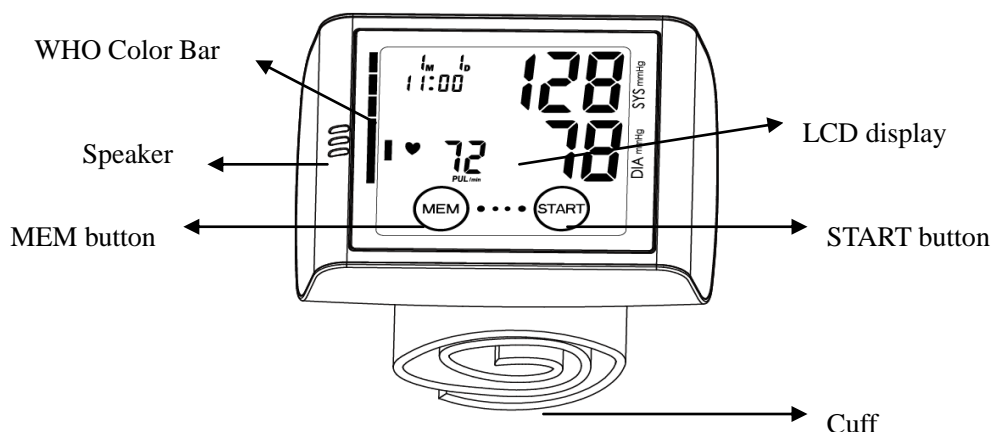
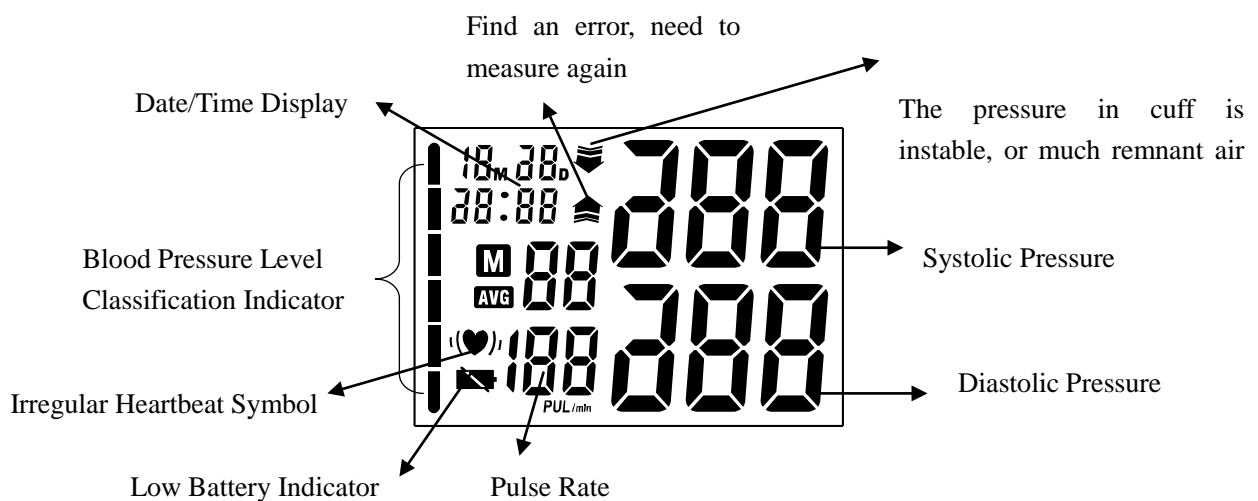
All physical activity, excitement, stress, eating, drinking, smoking, body posture and many other activities or factors (including taking a blood pressure measurement) will influence blood pressure value. Because of this, it is mostly unusual to obtain identical multiple blood pressure readings.

Blood pressure fluctuates continually day and night. The highest value usually appears in the daytime and lowest one usually at midnight. Typically, the value begins to increase at around 3:00AM, and reaches to highest level in the daytime while most people are awake and active.

Considering the above information, it is recommended that you measure your blood pressure at approximately the same time each day.

Too frequent measurements may cause injury due to blood flow interference, please always relax a minimum moment of 1 to 1.5 minutes between measurements to allow the blood circulation in your arm to recover. It is rare that you obtain identical blood pressure readings each time.

### CONTENTS AND DISPLAY INDICATORS



## INTENDED USE

Fully Automatic Electronic Blood Pressure Monitor is for use by medical professionals or at home and is a non-invasive blood pressure measurement system intended to measure the diastolic and systolic blood pressures and pulse rate of an adult individual by using a non-invasive technique in which an inflatable cuff is wrapped around the wrist.

## CONTRAINDICATION




It is inappropriate for people with serious arrhythmia to use this Electronic Sphygmomanometer.

## PRODUCT DESCRIPTION

Based on Oscillometric methodology and silicon integrated pressure sensor, blood pressure and pulse rate can be measured automatically and non-invasively. The most recent 60 measurements can be stored in the memory with date and time stamp. The voice function will ease the operation. The Electronic Sphygmomanometer corresponds to the below standards: IEC 60601-1:2005/EN 60601-1:2006/AC:2010 (Medical electrical equipment -- Part 1: General requirements for basic safety and essential performance), IEC60601-1-2:2007/EN 60601-1-2:2007 /AC:2010 (Medical electrical equipment -- Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests), IEC 80601-2-30 : 2009+Cor.2010/EN 80601-2-30:2010(Medical electrical equipment –Part 2-30: Particular requirements for the basic safety and essential performance of automated non-invasive sphygmomanometers)EN 1060-1: 1995 + A1: 2002 + A2: 2009 (Non-invasive sphygmomanometers - Part 1: General requirements), EN 1060-3: 1997 + A1: 2005 + A2: 2009 (Non-invasive sphygmomanometers - Part 3: Supplementary requirements for electro-mechanical blood pressure measuring systems), ANSI/AAMI SP-10:2002+A1:2003+A2:2006.

## SPECIFICATIONS


1. Product name: Blood Pressure Monitor
2. Model: KD-7965
3. Classification: Internally powered, Type BF applied part, IPX0, No AP or APG, Continuous operation
4. Machine size: 88mm x 66mm x 28.7mm
5. Cuff circumference: 14-19.5cm/5.5-7.7inches
6. Weight: about 142g (exclude batteries)
7. Measuring method: oscillometric method, automatic air inflation and measurement
8. Memory volume: 60 times with time and date stamp
9. Power source: batteries :2 x1.5V  SIZE AAA
10. Measurement range:
  - Cuff pressure: 0-300mmHg



Systolic: 60-260mmHg  
 Diastolic: 40-199mmHg  
 Pulse rate: 40-180 beats/minute

11. Accuracy:
  - Pressure:  $\pm 3$ mmHg
  - Pulse rate:  $\pm 5\%$
12. Environmental temperature for operation: 5°C ~ 40°C (41°F ~ 104°F)
13. Environmental humidity for operation:  $\leq 90\%$ RH
14. Environmental temperature for storage and transport: -20°C ~ 55°C (-4°F ~ 131°F)
15. Environmental humidity for storage and transport:  $\leq 90\%$ RH
16. Environmental pressure: 80kPa-105kPa
17. Battery life: Approx. 180 times
18. All components belonging to the pressure measuring system, including accessories: Pump, Valve, LCD, Cuff and Sensor.

Note: These specifications are subject to change without notice.

## NOTICE

1. Read all of the information in the operation guide and any other literature in the box before operating the unit.
2. Stay quiet, calm and rest for 5 minutes before blood pressure measurement.
3. The cuff should be placed at the same level as your heart.
4. During measurement, neither speak nor move your body and arm.
5. Measuring on same wrist for each measurement.
6. Please always relax a minimum moment of 1 to 1.5 minutes between measurements to allow the blood circulation in your arm to recover. Prolonged over-inflation (cuff pressure exceed 300 mmHg or maintained above 15 mmHg for longer than 3 minutes) of the bladder may cause ecchymoma of your arm.
7. Consult your physician if you have any doubt about below cases:
  - 1) The application of the cuff over a wound or inflammation diseases;
  - 2) The application of the cuff on any limb where intravascular access or therapy, or an arterio-venous (A-V) shunt, is present;
  - 3) The application of the cuff on the arm on the side of a mastectomy;
  - 4) Simultaneously used with other monitoring medical equipments on the same limb;
  - 5) Need to check the blood circulation of the user.
8.  This Electronic Sphygmomanometer is designed for adults and should never be used on infants or young children. Consult your physician or other health care professionals before use on older children.
9. Do not use this unit in a moving vehicle, This may result in erroneous measurement.
10. Blood pressure measurements determined by this monitor are equivalent to those obtained by a trained observer using the cuff/stethoscope auscultation method, within the limits prescribed by the American National Standard Institute, Electronic or automated sphygmomanometers.
11. Information regarding potential electromagnetic or other interference between the blood pressure monitor and other devices together with advice regarding avoidance of such interference please see part ELECTROMAGNETIC COMPATIBILITY INFORMATION.

12. If Irregular Heartbeat (IHB) brought by common arrhythmias is detected in the procedure of blood pressure measurement, a signal of '(♥)' will be displayed. Under this condition, the Electronic Sphygmomanometer can keep function, but the results may not be accurate, it's suggested that you consult with your physician for accurate assessment.
- There are 2 conditions under which the signal of IHB will be displayed:
- 1) The coefficient of variation (CV) of pulse period >25%.
  - 2) The difference of adjacent pulse period  $\geq 0.14s$ , and the number of such pulse takes more than 53 percentage of the total number of pulse.
13. Please do not use the cuff other than supplied by the manufacturer, otherwise it may bring biocompatible hazard and might result in measurement error.
14.  The monitor might not meet its performance specifications or cause safety hazard if stored or used outside the specified temperature and humidity ranges in specifications.
15.  Please do not share the cuff with other infective person to avoid cross-infection.
16. This blood pressure monitor is verified by auscultatory method. It is recommended that you check annex B of ANSI/AAMI SP-10:2002+A1:2003+A2:2006 for details of verification method if you need.
17. 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.

## SETUP AND OPERATING PROCEDURES


### 1. BATTERY LOADING

- a. Open battery cover at the back of the monitor.
- b. Load two "AAA" size batteries. Please pay attention to polarity.
- c. Close the battery cover.

When LCD shows battery symbol , replace all batteries with new ones.

Rechargeable batteries are not suitable for this monitor.

Remove the batteries if the monitor will not be used for a month or more to avoid relevant damage of battery leakage

 Avoid the battery fluid to get in your eyes. If it should get in your eyes, immediately rinse with plenty of clean water and contact a physician.



The monitor, the batteries and the cuff, must be disposed of according to local regulations at the end of their usage.

## 2. TOUCH SCREEN SWITCH

Your monitor has a touch screen as equipment. Be careful not to touch the screen by mistake. Keep the touch switch in “OFF” position when the monitor is not in use to avoid unintentional operation. Please keep the touch switch in “ON” position to operate the monitor. The touch switch is in “ON” position, press the touch screen (START button or MEM button), you can hear the beep.



## 3. CLOCK AND DATE ADJUSTMENT

- a. Once you install the battery or turn off the monitor, it will enter Clock Mode, and LCD will display time and date. [See picture 3.](#)



Picture 3

Picture 3-1

Picture 3-2

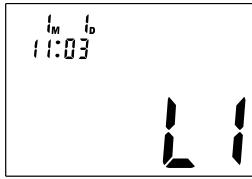
Picture 3-3

Picture 3-4

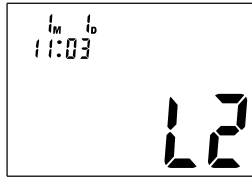
- b. While the monitor is in Clock Mode, pressing both the “START” and “MEM” button simultaneously (touch screen switch in ON position), the month will blink at first. [See picture 3-1.](#) Press the button “START” repeatedly, the day, hour and minute will blink in turn. [See picture 3-2 & 3-3 & 3-4.](#) While the number is blinking, press the button “MEM” to increase the number. Keep on pressing the button “MEM”, the number will increase fast.
- c. You can turn off the monitor by pressing “START” button when the minute is blinking, then the time and date is confirmed.
- d. The monitor will turn off automatically after 1 minute of no operation, with the time and date unchanged.
- e. Once you change the batteries, you should readjust the time and date.

## 4. VOICE SETTING

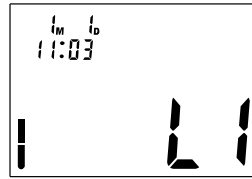
- a. Ensure the touch screen switch in ON position.
- b. Voice language setting: In clock mode, you can select the voice language by keeping on pressing the button “MEM”. Now LCD blink “L0”, “L1”, “L2” ... “Ln” ([see picture 4 & 4-1](#)) circularly. “L0” represents closing voice function, “L1” represents language 1, “L2” represents language 2,..., “Ln” represents language n, and so on. You can select the wanted language by releasing button “MEM” when display the corresponding language code.



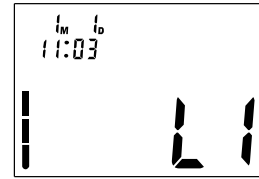
Picture 4



Picture 4-1



Picture 4- 2

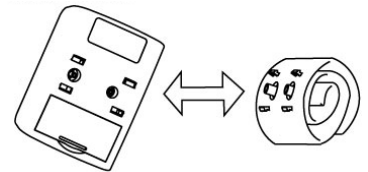


Picture 4-3

- c. Voice volume setting: Once you have selected a language, a column of bar will appear on the LCD. Keep on pressing the button “MEM” again, you can adjust the volume. See picture 4-2 & 4-3. The higher the bars, the louder the volume. Release button “MEM” at your desirable volume for confirmation.

## 5. CONNECTING THE CUFF TO THE MONITOR

The cuff is attached to the monitor when it is packaged. Should the cuff become unattached, align the two plugs and four brackets of the cuff with the plug sockets and bracket sockets of the monitor and press the cuff to the monitor until the plugs and brackets are securely attached.



## 6. APPLYING THE CUFF

- Place the cuff around a bare wrist 1-2cm above the wrist joint on the palm side of the wrist.
- While seated, place the arm with the cuffed wrist in front of your body on a desk or table with the palm up. If the cuff is correctly placed, you can read the LCD display.
- The cuff must be neither too tight nor too loose.



**Note:**

- Please refer to the cuff circumference range in “SPECIFICATIONS” to make sure that the appropriate cuff is used.**
- Measuring on same wrist each time.**
- Do not move your arm, body, or the monitor during measurement.**
- Stay quiet, calm for 5 minutes before blood pressure measurement.**
- Please keep the cuff clean. If the cuff becomes dirty, remove it from the monitor and clear it by hand in a mild detergent, then rinse it thoroughly in cold water. Never dry the cuff in clothes dryer or iron it. Clean the cuff after the usage of every 200 times is recommended.**

## 7. BODY POSTURE DURING MEASUREMENT

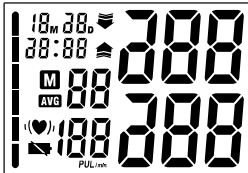
**Sitting Comfortably Measurement**

- Be seated with your feet flat on the floor, and don't cross your legs.
- Place palm upside in front of you on a flat surface such as a desk or table, with your elbow resting on a chair or table.
- The middle of the cuff should be at the level of the right atrium of the heart

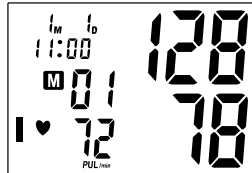


## 8. TAKING YOUR BLOOD PRESSURE READING

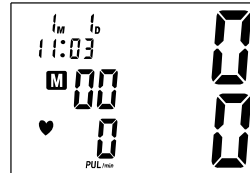
- Ensure the touch screen switch in ON position.
- After applying the cuff and your body is in a comfortable position, press the “START” button, all display characters are shown for self-test. See [picture 8](#). Please contact the service center if segment is missing.
- Then, the LCD will momentarily display the last measurement stored in the memory bank. See [picture 8-1](#). If the monitor has no measurement stored in the memory, the LCD will display “0” for blood pressure and pulse rate. See [picture 8-2](#).



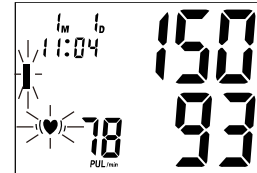
Picture 8



Picture 8-1



Picture 8-2



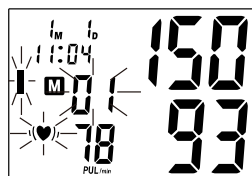
Picture 8-3

- If the voice function is switched on, the monitor will speak out measurement tips.
- Then the monitor inflates the cuff until sufficient pressure has built up for a measurement. Then the monitor slowly releases air from the cuff and carries out the measurement. Finally the blood pressure and pulse rate will be calculated and displayed on the LCD. See [picture 8-3](#). The irregular heartbeat symbol (if any) and blood pressure classification indicator will blink on the screen. The result will be automatically stored in the memory. If the voice function is on, it will announce the measurement result.
- After measurement, the monitor will turn off automatically after 1 minute of no operation. Alternatively, you can press the “START” button to turn off the monitor manually.
- During measurement, you can press the “START” button to turn off the monitor manually.

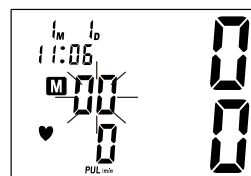
**Note:** Please consult a health care professional for interpretation of pressure measurements.

## 9. DISPLAYING STORED RESULTS

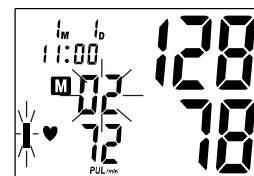
- Ensure the touch screen switch in ON position.
- In Clock Mode, press “MEM” button, the last result will be displayed with date and time stamp. See [picture 9](#). The irregular heartbeat symbol (if any) and blood pressure classification indicator will blink at the same time. If the monitor has no result stored in the current memory bank, the LCD will display “0” for blood pressure and pulse rate. See [picture 9-1](#).



Picture 9



Picture 9-1



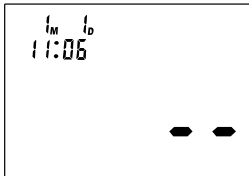
Picture 9-2

- Press “MEM” button again to review the next result. See [picture 9-2](#). In this way, repeatedly pressing the “MEM” button displays the respective results measured previously.
- If the voice function is on, the monitor will announce each result displaying on the screen.
- When displaying the stored results, the monitor will turn off automatically after 2 minutes of no operation. You can also press the button “START” to turn off the monitor manually.

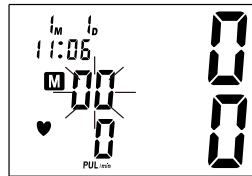


## 10. DELETING MEASUREMENTS FROM THE MEMORY

When any result is displaying, keep on pressing button “MEM” for three seconds, all results in the memory bank will be deleted after three “beep”. See picture 10 & picture 10-1. Press the button “MEM” or “START”, the monitor will turn off.



Picture 10

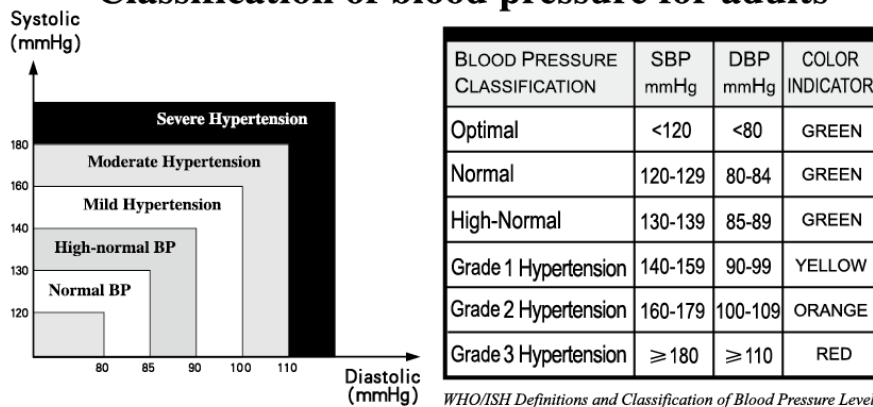


Picture 10-1

## 11. ASSESSING HIGH BLOOD PRESSURE FOR ADULTS

The following guideline for assessing high blood pressure (without regard to age or gender) has been established by the World Health Organization (WHO). Please note that other factors (e.g. diabetes, obesity, smoking, etc.) need to be taken into consideration. Consult with your physician for accurate assessment, and never change your treatment by yourself.

### Classification of blood pressure for adults



**Note:** It is not intended to provide a basis of any type of rush toward emergency conditions/diagnosis based on the color scheme and that the color scheme is meant only to discriminate between the different levels of blood pressure.


## 12. TECHNICAL ALARM DESCRIPTION

The monitor will show 'SYS HI', 'SYS Lo', 'DIA HI' or 'DIA Lo' as technical alarm on LCD with no delay if the determined blood pressure (systolic or diastolic) is outside the rated range specified in part SPECIFICACIONES. In this case, you should consult a physician or check if your operation violated the instructions.

The technical alarm condition (outside the rated range) is preset in the factory and cannot be adjusted or inactivated. This alarm condition is assigned as low priority according to IEC 60601-1-8.

The technical alarm is non-latching and need no reset. The signal displayed on LCD will disappear automatically after about 8 seconds.




### 13.TROUBLESHOOTING (1)

PROBLEM	POSSIBLE CAUSE	SOLUTION
LCD Display shows battery symbol 	Low Battery	Change the batteries
LCD Display shows "EE"	Arm or blood pressure monitor was moved during testing	Re-test taking care to not move your arm or the blood pressure monitor
	The cuff does not inflate properly or pressure falls quickly during testing	Make certain the plugs and brackets of the cuff are securely attached to the monitor.
	The cuff was not properly applied.	Apply the cuff correctly and try again
No response when you press button or load battery.	Incorrect operation or strong electromagnetic interference.	Take out batteries for five minutes, and then reinstall all batteries.
In Clock Mode, no response when you press button.	The touch switch is in OFF position.	Please keep touch switch in ON position, and try again

### 14. TROUBLESHOOTING (2)

PROBLEM	POSSIBLE CAUSE	SOLUTION
LCD Display shows abnormal result	The cuff position was not correct or it was not properly tightened	Apply the cuff correctly and try again
	Body posture was not correct during testing	Review the "BODY POSTURE DURING MEASUREMENT" sections of the instructions and re-test.
	Speaking, arm or body movement, angry, excited or nervous during testing	Re-test when calm and without speaking or moving during the test
	Irregular heartbeat (arrhythmia)	It is inappropriate for people with serious arrhythmia to use this Electronic Sphygmomanometer.

## MAINTENANCE

1.  Do not drop this monitor or subject it to strong impact.
2.  Avoid high temperature and solarization. Do not immerse the monitor in water as this will result in damage to the monitor.
3. If this monitor is stored near freezing, allow it to acclimate to room temperature before use.
4.  Do not attempt to disassemble this monitor.
5. If you do not use the monitor for a long time, please remove the batteries.
6. It is recommended the performance should be checked every 2 years or after repair. Please contact the service center.
7. Clean the monitor with a dry, soft cloth or a soft cloth squeezed well after moistened with water, diluted disinfectant alcohol, or diluted detergent.
8. No component can be maintained by user in the monitor. The circuit diagrams, component part lists, descriptions, calibration instructions, or other information which will assist the user's appropriately qualified technical personnel to repair those parts of equipment which are designated **repairably** can be supplied.
9. The monitor can maintain the safety and performance characteristics for a minimum of 10,000 measurements or three years, and the cuff integrity is maintained after 1,000 open–close cycles of the closure.
10. It is recommended the cuff should be disinfected 2 times every week if needed (For example, in hospital or in clinique). Wipe the inner side (the side contacts skin) of the cuff by a soft cloth squeezed after moistened with Ethyl alcohol (75-90%), then dry the cuff by airing.

## EXPLANATION OF SYMBOLS ON UNIT



Symbol for "THE OPERATION GUIDE MUST BE READ" (The sign background colour: blue. The sign graphical symbol: white)



Symbol for "WARNING"



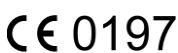
Symbol for "TYPE BF APPLIED PARTS" (The cuff is type BF applied part)



Symbol for "ENVIRONMENT PROTECTION – Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local Authority or retailer for recycling advice".



Symbol for "MANUFACTURER"



Symbol for "COMPILES WITH MDD93/42/EEC REQUIREMENTS"



Symbol for "DATE OF MANUFACTURE"



Symbol for "EUROPEAN REPRESENTATION"

SN Symbol for "SERIAL NUMBER"



Symbol for "KEEP DRY"

## WARRANTY INFORMATION

Only charge the cost of components and transport.

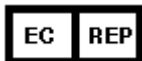
## SERVICE CENTER



ANDON HEALTH CO., LTD.

No. 3 Jinping Street, Ya An Road, Nankai District, Tianjin 300190, China.

Tel: 86-22-60526081



Lotus Global Co., Ltd.

15 Alexandra Road, London UK, NW8 0DP

Tel: +0044-20-75868010 Fax: +0044-20-79006187

## ELECTROMAGNETIC COMPATIBILITY INFORMATION

**Table 1**  
**For all ME EQUIPMENT and ME SYSTEMS**

<b>Guidance and manufacture's declaration - electromagnetic emissions</b>		
The KD-7965 is intended for use in the electromagnetic environment specified below. The customer or the user of the KD-7965 should assure that it is used in such an environment.		
<b>Emissions test</b>	<b>Compliance</b>	<b>Electromagnetic environment - guidance</b>
RF emissions CISPR 11	Group 1	The KD-7965 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 KD-7965 is suitable for use in all establishments other than domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic
Harmonic emissions IEC 61000-3-2	Not applicable	
Voltage fluctuations/	Not applicable	

flicker emissions IEC 61000-3-3		purposes.
------------------------------------	--	-----------

**Table 2**


**For all ME EQUIPMENT and ME SYSTEMS**

<b>Guidance and manufacturer's declaration - electromagnetic immunity</b>			
The KD-7965 is intended for use in the electromagnetic environment specified below. The customer or the user of the KD-7965 should assure that it is used in such an environment.			
<b>IMMUNITY test</b>	<b>IEC 60601test level</b>	<b>Compliance level</b>	<b>Electromagnetic environment - guidance</b>
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 %.
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.

**Table 3**

**For ME EQUIPMENT and ME SYSTEMS that are not LIFE-SUPPORTING**

<b>Guidance and manufacturer's declaration - electromagnetic immunity</b>			
The KD-7965 is intended for use in the electromagnetic environment specified below. The customer or the user of the KD-7965 should assure that it is used in such an environment.			
<b>IMMUNITY test</b>	<b>IEC 60601test level</b>	<b>Compliance level</b>	<b>Electromagnetic environment - guidance</b>
			Portable and mobile RF communications equipment should be used no closer to any part of the KD-7965, including cables, than the recommended separation distance calculated from the equation applicable to

<p>Radiated RF IEC 61000-4-3</p>	<p>3 V/m 80 MHz to 2.5 GHz</p>	<p>3 V/m</p>	<p>the frequency of the transmitter. <b>Recommended separation distance:</b></p> $d = 1.2\sqrt{P} \quad 80 \text{ MHz to } 800 \text{ MHz}$ $d = 2.3\sqrt{P} \quad 800 \text{ MHz to } 2,5 \text{ GHz}$ <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,<sup>a</sup> should be less than the compliance level in each frequency range.<sup>b</sup> Interference may occur in the vicinity of equipment marked with the following symbol:</p> 
<p>NOTE 1 At 80 MHz and 800 MHz, 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.</p>			
<p>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 KD-7965 is used exceeds the applicable RF compliance level above, the KD-7965 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the KD-7965. b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.</p>			

**Table 4**  
**For ME EQUIPMENT and ME SYSTEMS that are not LIFE-SUPPORTING**

<b>Recommended separation distances between portable and mobile RF communications equipment and the KD-7965</b>			
<p>The KD-7965 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the KD-7965 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the KD-7965 as recommended below, according to the maximum output power of the communications equipment.</p>			
<b>Rated maximum output power of transmitter</b> W	<b>Separation distance according to frequency of transmitter</b> m		
	<b>150 kHz to 80 MHz</b> $d = 1.2\sqrt{P}$	<b>80 MHz to 800 MHz</b> $d = 1.2\sqrt{P}$	<b>800 MHz to 2,5 GHz</b> $d = 2.3\sqrt{P}$
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
<p>For transmitters rated at a maximum output power not listed above, the recommended separation distance <math>d</math> in meters (m) can be determined using the equation applicable to the frequency of the transmitter, where <math>P</math> is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.</p> <p>NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.</p> <p>NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.</p>			