



GIMA

PROFESSIONAL MEDICAL PRODUCTS

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SFIGMOMANOMETRO AUTOMATICO VOCALE
TALKING AUTOMATIC BLOOD PRESSURE MONITOR
DISPOSITIF DE MONITORAGE POUR DÉTECTION AUTOMATIQUE
DE LA PRESSION SANGUINE AVEC FONCTION VOCALE
MONITOR AUTOMÁTICO CON FUNCIÓN DE VOZ PARA MEDIR
LA PRESIÓN SANGUÍNEA
MONITOR PARA DETEÇÃO AUTOMÁTICA DA PRESSÃO
SANGUÍNEA COM FUNÇÃO DE VOZ
SPRECHENDER MONITOR FÜR DIE AUTOMATISCHE
ERFASSUNG DES BLUTDRUCKS

Manuale d'uso - User manual - Manuel de l'utilisateur
Guía de Uso - Guia para utilização - Gebrauchsanweisung

ATTENZIONE: Gli operatori devono leggere e capire completamente questo manuale prima di utilizzare il prodotto.
ATTENTION: The operators must carefully read and completely understand the present manual before using the product.
AVIS: Les opérateurs doivent lire et bien comprendre ce manuel avant d'utiliser le produit.
ATENCIÓN: Los operadores tienen que leer y entender completamente este manual antes de utilizar el producto.
ATENÇÃO: Os operadores devem ler e entender completamente este manual antes de usar o produto.
ACHTUNG: Die Bediener müssen vorher dieses Handbuch gelesen und verstanden haben, bevor sie das Produkt benutzen.



REF

32940 / KD-595



Andon Health Co., Ltd
No. 3 JinPing, YaAn Road, Nankai District, Tianjin 300190, China
Made in P.R.C.

CE0197

EC REP

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IMPORTANT INFORMATION

Normal blood pressure fluctuation

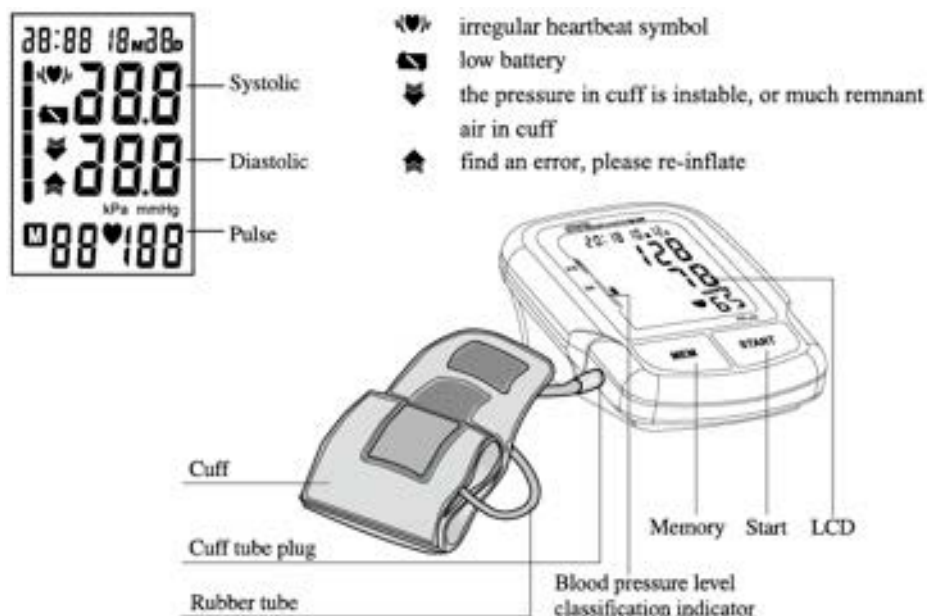
All physical activity, excitement, stress, eating, drinking, smoking, body posture and many other activities or factors (including taking a blood pressure measurement) will influence blood pressure value. Because of this, it is mostly unusual to obtain identical multiple blood pressure readings.

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.

Please always relax a minimum 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 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 upper arm. The cuff circumference is limited to 22cm-48cm (approx. 8 21/32"~18 29/32").


CONTRAINDICATION

 It is inappropriate for people with serious arrhythmia to use this electronic blood pressure monitor.

PRODUCT DESCRIPTION




Based on Oscillometric methodology and silicon integrated pressure sensor, blood pressure and pulse rate can be measured automatically and non-invasively. The LCD display will show blood pressure and pulse rate. 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 Blood Pressure Monitor 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), 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-595
3. Classification: Internally powered, Type BF applied part, IPX0, No AP or APG, Continuous operation
4. Machine size: approx. 135mm x 108mm x 60mm
(6 1/32" x 4 1/4" x 2 3/8")
5. Cuff circumference: 22-30 cm (8 21/32" -11 13/16"),
30-42cm (11 13/16"-16 17/32") (optional),
42-48 cm(16 17/32"-18 29/32") (optional)
6. Weight: approx. 290g (10 7/32 oz.) (exclude batteries)
7. Measuring method: Oscillometric method, automatic inflation and measurement
8. Memory volume: 60 times with time and date stamp
9. Power source: DC 6V 600mA, batteries: 4 ×1.5V  SIZE AA
10. Measurement range:
 - Cuff pressure: 0-300 mmHg
 - Systolic: 60-260 mmHg
 - Diastolic: 40-199 mmHg
 - Pulse rate: 40-180 beats/minute
11. Accuracy:
 - Pressure: ±3 mmHg
 - Pulse rate: ±5%
12. Environmental temperature for operation: 5°C~40°C (41°F~104°F)
13. Environmental humidity for operation: ≤90%RH
14. Environmental temperature for storage and transport:
-20°C~55°C (-4°F~131°F)
15. Environmental humidity for storage and transport: ≤90% RH
16. Environmental pressure: 80kPa-105kPa
17. Battery life: Approx 180 times
18. A list of all components belonging to the pressure measuring system, including accessories: Pump, Valve, LCD, Cuff, 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 arm for each measurement.
6. Please always relax at least 1 or 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.  This Electronic Blood Pressure Monitor s 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.
8. Do not use this unit in a moving vehicle, This may result in erroneous measurement.
9. 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.
10. 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.
11. 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 Blood Pressure Monitors 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.
12. Please do not use the cuff other than supplied by the manufacturer, otherwise it may bring biocompatible hazard and might result in measurement error.
13.  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.
14.  Please do not share the cuff with other infective person to avoid cross-infection.
15. Medical AC adapter which output is DC 6.0V 600mA and complied

with IEC 60601-1/EN 60601-1/UL 60601-1 and IEC 60601-1-2/EN 60601-1-2/UL 60601-1-2 is suitable for this monitor. Please note that the monitor jack size: hole \varnothing 5.5mm, center pin \varnothing 2.0mm.


Please pay attention to polarity.

16. 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.
17. 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.

SETUP AND OPERATING PROCEDURES

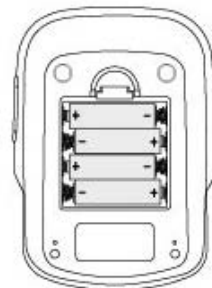
1. Battery loading


- Open battery cover at the back of the monitor.
- Load four “AA” size batteries. Please pay attention to polarity.
- 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.

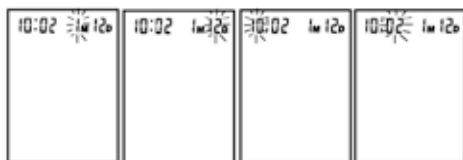


-  Avoid the battery fluid to get in your eyes. If it should get in your eyes, immediately rinse with plenty of clean water, and contact a physician.

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

2. Clock and date adjustment

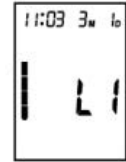
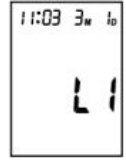
- Once you install the battery or turn off the monitor, it will enter Clock Mode, and LCD will display time and date.
- While the monitor is in Clock Mode, press the “START” and “MEM” button simultaneously for two seconds, the month will blink at first. Press the button “START” repeatedly, the day, hour and minute will blink in turn. While the number is blinking, press the button “MEM” to increase the number. Keep on pressing the button “MEM”, the number will increase fast.



- You can turn off the monitor by pressing “START” button when the minute is blinking, then the time and date is confirmed.
- The monitor will turn off automatically after 1 minute of no operation with the time and date unchanged.
- Once you change the batteries, you should readjust the time and date.

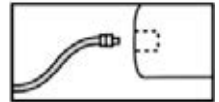
3. Voice setting

- Voice language setting: In clock mode, you can select the voice language by keeping on press the button “MEM”. Now LCD blink “L0”, “L1”, “L2” ... “Ln” (n means the number of language) 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.
- If the number of language is only one, LCD will twinkle “ON” and “--” circularly. Here “ON” represents opening the voice function and “--” represents closing the voice function.
- Voice volume setting: Once you have selected a language, keeping on pressing the button “MEM” again. A column of bar will appear on the left side of the LCD. The higher the bars, the louder the volume. Release button “MEM” at your desirable volume for confirmation.



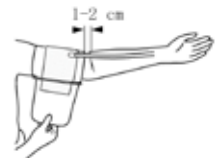
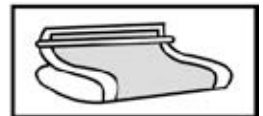
4. Connecting the cuff to the monitor

Insert the cuff tubing connector into the socket in the left side of the monitor. Make certain that the connector is completely inserted to avoid air leakage during blood pressure measurements.



5. Applying the cuff

- Pulling the cuff end through the medal loop (the cuff is packaged like this already), turn it outward (away from your body) and tighten it and close the Velcro fastener.
- Place the cuff around a bare arm 1-2cm above the elbow joint.
- While seated, place palm upside in front of you on a flat surface such as a desk or table. Position the air tube in the middle of your arm in line with your middle finger.
- The cuff should fit comfortably, yet snugly around your arm. You should be able to insert one finger between your arm and the cuff.



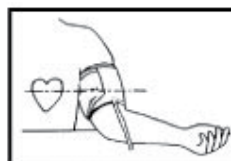
Note:

1. Please refer to the cuff circumference range in “SPECIFICATIONS” to make sure that the appropriate cuff is used.
2. Measuring on same arm each time.
3. Do not move your arm, body, or the monitor and do not move the rubber tube during measurement.
4. Stay quiet, calm for 5 minutes before blood pressure measurement.
5. 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.
6. Do not place the cuff around your arm if the arm has any inflammation, acute diseases, infections skin wounds.

6. Body posture during measurement

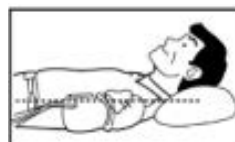
Sitting Comfortably Measurement

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



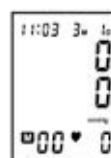
Lying Down Measurement

- a. Lie on your back.
- b. Place your arm straight along your side with your palm upside.
- c. The cuff should be placed at the same level as your heart.



7. Taking your blood pressure reading

- a. After applying the cuff and your body is in a comfortable position, press the “START” button. A beep is heard and all display characters are shown for self-test. You can check the LCD display according to the right picture. Please contact the service center if segment is missing.
- b. If the monitor has stored results, the LCD will momentarily display the most recent one. If no result has been stored, zero will appear on LCD.
- c. If the voice function is switched on, the monitor will speak out measurement tips.
- d. 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 screen. The blood pressure classification indicator and Irregular heartbeat symbol (if any) will blink on the screen. If the voice function is on, it will announce the measurement result. The result will be automatically stored in the monitor.

- e. 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.
- f. 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.

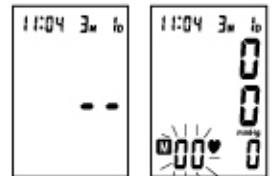
8. Displaying stored results

- a. In Clock Mode, press “MEM” button, the last result will be displayed with date and time. Irregular heartbeat symbol (if any) and the indicator of blood pressure classification will blink at the same time. Press “MEM” button repeatedly to review the results measured previously.
- b. If the voice function is on, the monitor will announce each result in the memory.
- c. 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.



9. Deleting measurements from the memory

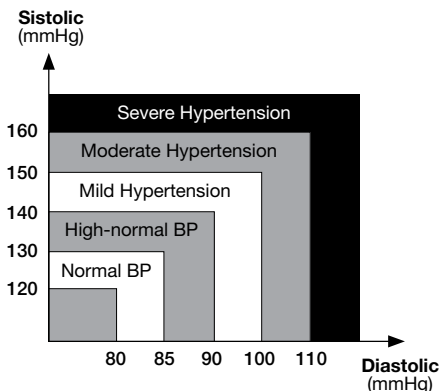
When any result is displaying, keeping on pressing button “MEM” for three seconds, all results will be deleted after three “beep”. Press the button “MEM” or “START”, the monitor will turn off.



10. Assessing high blood pressure for adults

The following guidelines for assessing high blood pressure (without regard to age or gender) have 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



BLOOD PRESSURE CLASSIFICATION	SBP mmHg	DBP mmHg	COLOR INDICATOR
Optimal	<120	<80	green
Normal	120-129	80-84	green
High-Normal	130-139	85-89	green
Grade 1 Hypertension	140-159	90-99	yellow
Grade 2 Hypertension	160-179	100-109	orange
Grade 3 Hypertension	≥180	≥110	red

WHO/ISH Definitions and classification of blood pressure levels

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.

11. Troubleshooting (1)

PROBLEM	POSSIBLE CAUSE	SOLUTION
LCD Display shows battery symbol	Low Battery	Change all 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 rubber tube is fully inserted into the blood pressure monitor
	Irregular heartbeat (arrhythmia)	It is inappropriate for people with serious arrhythmia to use this blood pressure monitor

12. Troubleshooting (2)

PROBLEM	POSSIBLE CAUSE	SOLUTION
LCD Display shows "EE"	The cuff was not properly applied or the rubber tube was bent or pressed	Review the cuff applying and testing sections of the instructions and re-test
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 and testing 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
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

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 by us.
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”

CE0197

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”

ELECTROMAGNETIC COMPATIBILITY INFORMATION

Table 1
For all ME EQUIPMENT and ME SYSTEMS

Guidance and manufacturer's declaration - electromagnetic emissions		
The KD-595 is intended for use in the electromagnetic environment specified below. The customer or the user of the KD-595 should assure that it is used in such an environment.		
Emissions test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11	Group 1	The KD-595 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-595 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 purposes
Harmonic emissions IEC 61000-3-2	Not applicable	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Not applicable	

Table 2
For all ME EQUIPMENT and ME SYSTEMS

Guidance and manufacturer's declaration - electromagnetic immunity			
The KD-595 is intended for use in the electromagnetic environment specified below. The customer or the user of the KD-595 should assure that it is used in such an environment.			
IMMUNITY test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge (ESD) IEC 61000-4-2	± 6 kV contact ± 8 kV air	± 6 kV contact ± 8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%
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


Guidance and manufacturer's declaration - electromagnetic immunity			
The KD-595 is intended for use in the electromagnetic environment specified below. The customer or the user of the KD-595 should assure that it is used in such an environment.			
IMMUNITY test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz	3 V/m	<p>Portable and mobile RF communications equipment should be used no closer to any part of the KD-595, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</p> <p>Recommended separation distance:</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,^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:</p> 
<p>Note 1: At 80 MHz and 800 MHz, 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>			
<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-595 is used exceeds the applicable RF compliance level above, the KD-595 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-595.</p> <p>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

Recommended separation distances between portable and mobile RF communications equipment and the KD-595			
The KD-595 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the KD-595 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the KD-595 as recommended below, according to the maximum output power of the communications equipment.			
Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter		
	150 kHz to 80 MHz $d = 1.2 \sqrt{P}$	80 MHz to 800 MHz $d = 1.2 \sqrt{P}$	800 MHz to 2,5 GHz $d = 2.3 \sqrt{P}$
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

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

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

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



***Disposal:** The product must not be disposed of along with other domestic waste. The users must dispose of this equipment by bringing it to a specific recycling point for electric and electronic equipment. For further information on recycling points contact the local authorities, the local recycling center or the shop where the product was purchased. If the equipment is not disposed of correctly, fines or penalties may be applied in accordance with the national legislation and regulations.*

GIMA WARRANTY CONDITIONS

Congratulations for purchasing a GIMA product. This product meets high qualitative standards both as regards the material and the production. The warranty is valid for 12 months from the date of supply of GIMA. During the period of validity of the warranty, GIMA will repair and/or replace free of charge all the defected parts due to production reasons. Labor costs and personnel traveling expenses and packaging not included. All components subject to wear are not included in the warranty. The repair or replacement performed during the warranty period shall not extend the warranty. The warranty is void in the following cases: repairs performed by unauthorized personnel or with non-original spare parts, defects caused by negligence or incorrect use. GIMA cannot be held responsible for malfunctioning on electronic devices or software due to outside agents such as: voltage changes, electro-magnetic fields, radio interferences, etc. The warranty is void if the above regulations are not observed and if the serial code (if available) has been removed, cancelled or changed. The defected products must be returned only to the dealer the product was purchased from. Products sent to GIMA will be rejected.